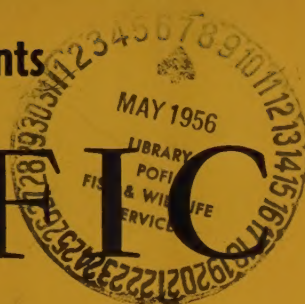


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PACIFIC FISHERMAN



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Heard About Boat Building? ... p27

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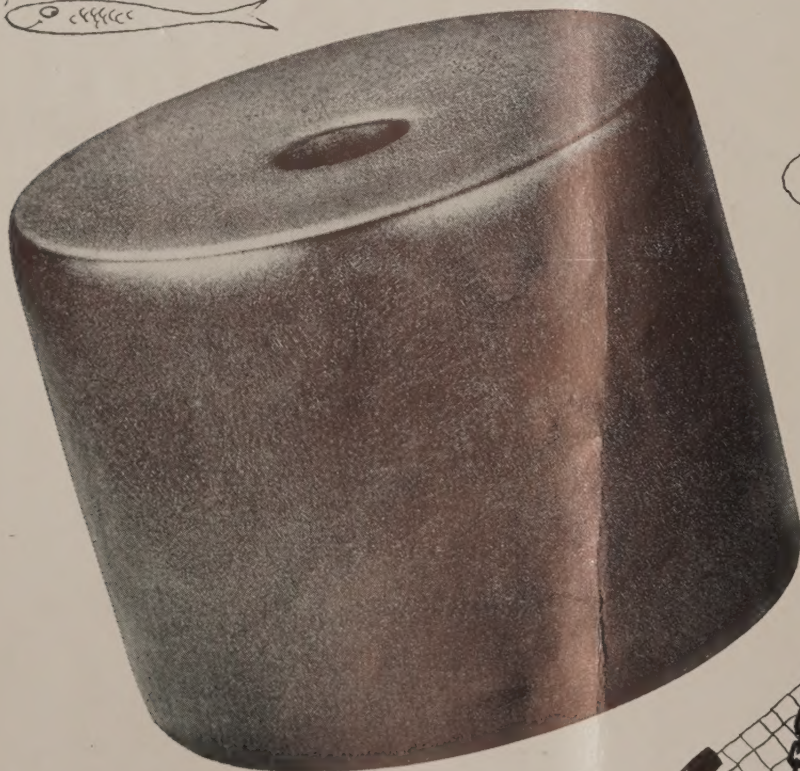
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Associate Editor

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Associate Editor

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A. W. Ponsford
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Secretary-Treasurer

Publishing Office

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Editorial and Advertising Office

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A MILLER FREEMAN
PUBLICATION



International Affairs Command National Fisheries' Interest

• New recognition of the role which fisheries are playing in international relationships, and of the dangers in which the *American* fisheries find themselves today, dominated the early aspects of the National Fisheries Institute annual meeting at Miami Beach in April.

Action of Russia in asserting authority over salmon fishing in a wide area of the high seas thrust the subject into the forefront of thought and interest. Back of that were Mexican seizure of American shrimp vessels; and Iceland's uneasy stirrings.

Coming up in a fortnight following the NFI meeting was the Geneva meeting of the International Law Commission, which will shape into final form its recommendations to the United Nations on questions of international law as they affect fisheries and the regime—rules—of the high seas.

After that—next fall—the United Nations itself will act in Washington on this International Law Commission report. In all of these things the members of the fishing industry meeting at Miami Beach saw warnings—evidence of problems for which there were no clear solutions.

The future could not be less than ominous against the background of meetings last spring at Santiago, Chile; last fall at Mexico City; last month at Ciudad Trujillo, in all of which the majority attitude of friendly American republics was largely opposed to the policies of the United States.

• Opinions at Miami Beach were expressed in words like these:

"The United States is in a bind between the interests of two essential allies, Iceland and Japan."

"In world politics, *power* politics—and that's the big point at issue between the USSR and Japan, not fish—international policies are paramount to the interests of fisheries."

"The United States fishing industry is united behind one thing—and that's the 8-ball."

• The situation was serious enough to command the attention, and *attendance*, of 12 congressmen; plus an assistant Secretary of the Interior.

Seriousness with which matters are regarded in Washington was evidenced in the formal address of Senator Leverett Saltonstall of Massachusetts, which may be counted as expressing Administration policy, and in which he said:

"Freedom of the seas and sovereignty over the seas by adjacent countries are simply incompatible doctrines."

• Industry opinion seemed to crystalize behind demand for a need of (1) better representation for fisheries in the United States representation in the United Nations; (2) higher ranking for fisheries in the Department of State, plus a larger staff; (3) vigorous action in Congress supporting fisheries' united position.

A fourth position had earnest advocacy. It sought to marshal support on the grounds of the needs of the international situation behind the new bill which would seek to set-up *within* the Department of the Interior of a Fisheries Commission, which seems to have died in infancy.

This is only a pre-view. The June issues of "Pacific Fisher" will cover the NFI convention in full.

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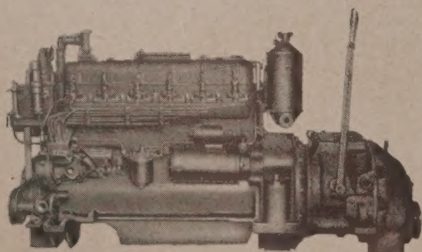
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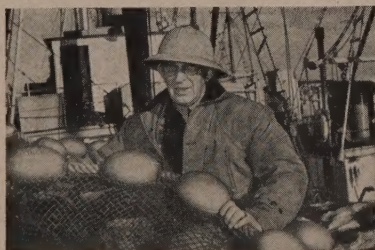


3200 Spongex floats do the work of 7000 conventional floats on this 9 ton net

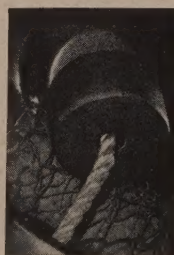
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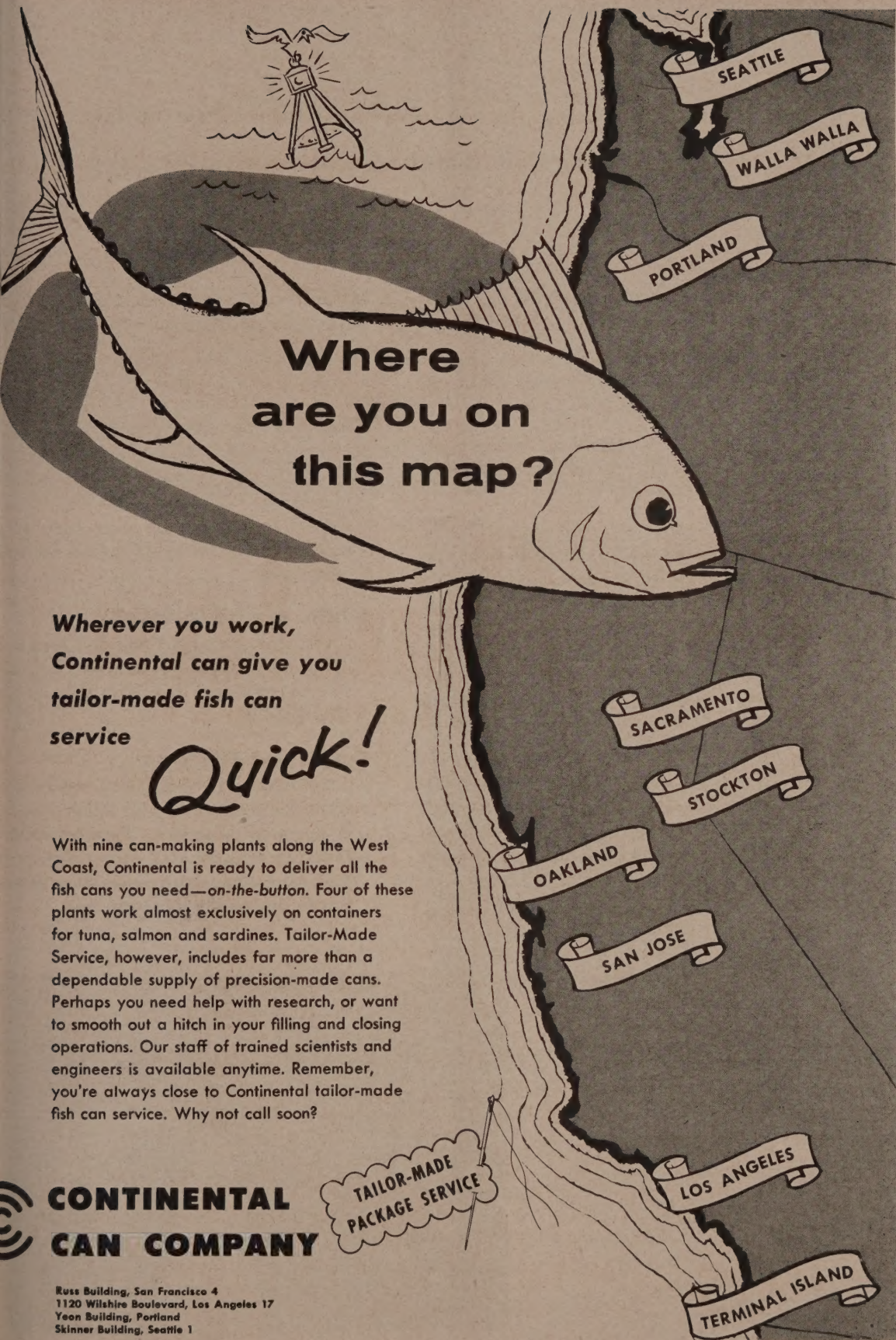
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- Why sacrifice valuable pay load and supplies capacity for the weight and space of an outsized engine and its accessories?

These were the first questions asked by National Steel and Shipbuilding Corporation before the first keel plate was laid for its fleet of modern tuna clippers. It answered these basic questions by standardizing on the compact six-cylinder, 960 horsepower Fairbanks-Morse Opposed-Piston Marine Diesel. This elimination of excess bulk and weight is one of the reasons why these 127-foot vessels have a 340-ton capacity plus ample sea stores.

The first three of these O-P powered vessels are now proving the added advantages of dependable power, higher speeds and increased maneuverability. Two more clippers on the NASSCO ways will soon provide further proof of the *plus performance* of this modern fleet that has standardized on Fairbanks-Morse Opposed-Piston power.

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NASSCO standardized on Opposed-Piston Diesel bec

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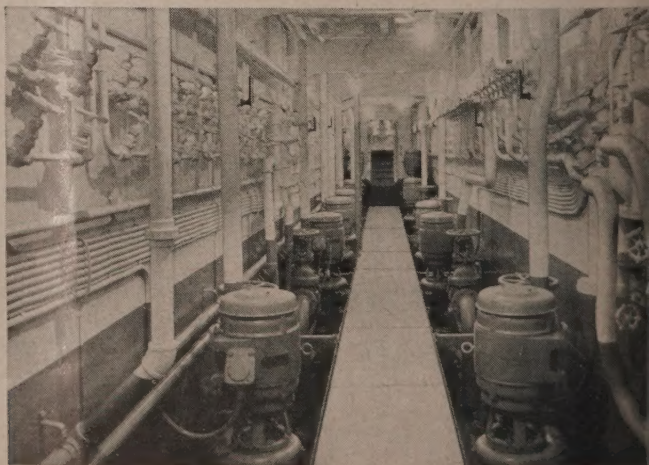
... that eliminates many wearing parts and attendant adjustment, service and even replacement. The O-P presents the ultimate in respect by eliminating more than 40% of the wearing parts found in engines of comparable horsepower.

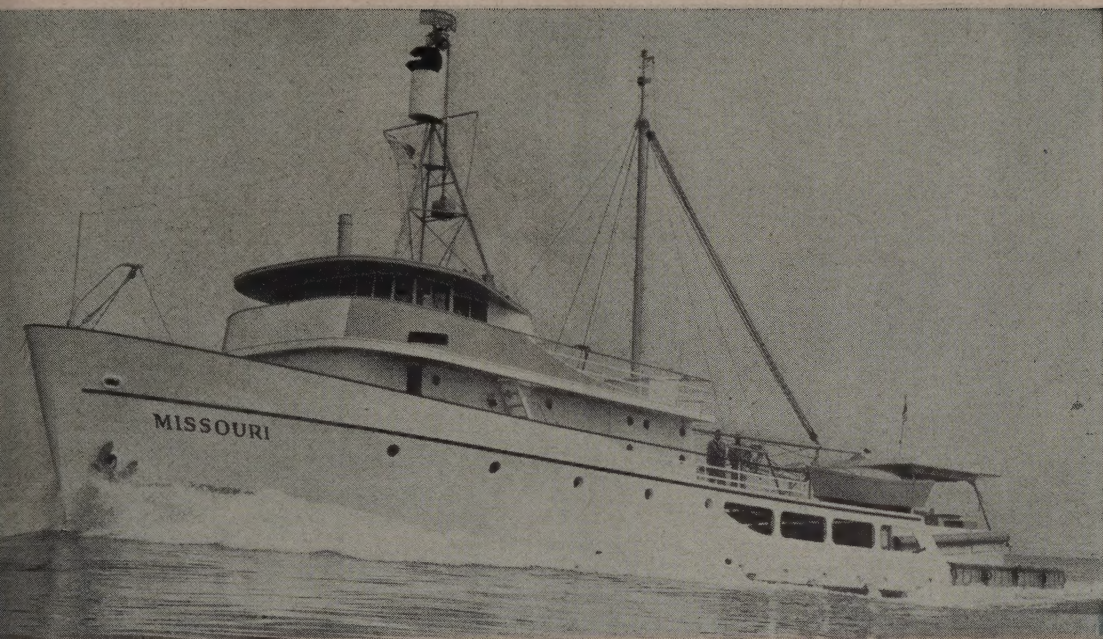
Uniflow scavenging

... eliminates crosscurrents and dead ports, provides greater horsepower and improved thermal efficiency that give the utmost in oil economy.

Opposed-Pistons

... of equal weight in a single-cylinder design act to the pressure of combustion at equal angles in opposite directions. Together with rotating crankshafts, these design features produce an unequaled smoothness of operation, power, practically vibration free.





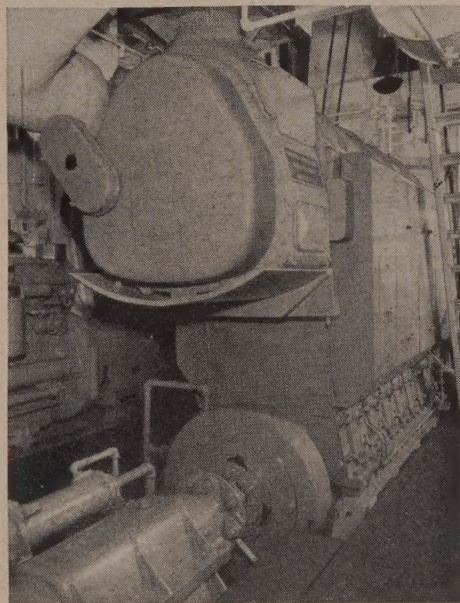
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These new fishermen have an efficient hull designed as the result of extensive model test

Rudder: The design of rudder features one of the high-speed N.A.C.A. airfoil shapes.

Engine: The heavy-duty 960 hp. F-M Opposed-Piston Diesel was selected for modern reliability and economy.

These exclusive design advantages stand established by more than 6,000,000 in Opposed-Piston horsepower. It proves the economy... economy... and efficiency of the Fairbanks-Morse Opposed-Piston Marine Diesel.



Engine-room view of the 960 hp. Model 38D Opposed-Piston Marine Diesel specified as the standard propulsion engine for the new fleet of NASSCO tuna clippers.



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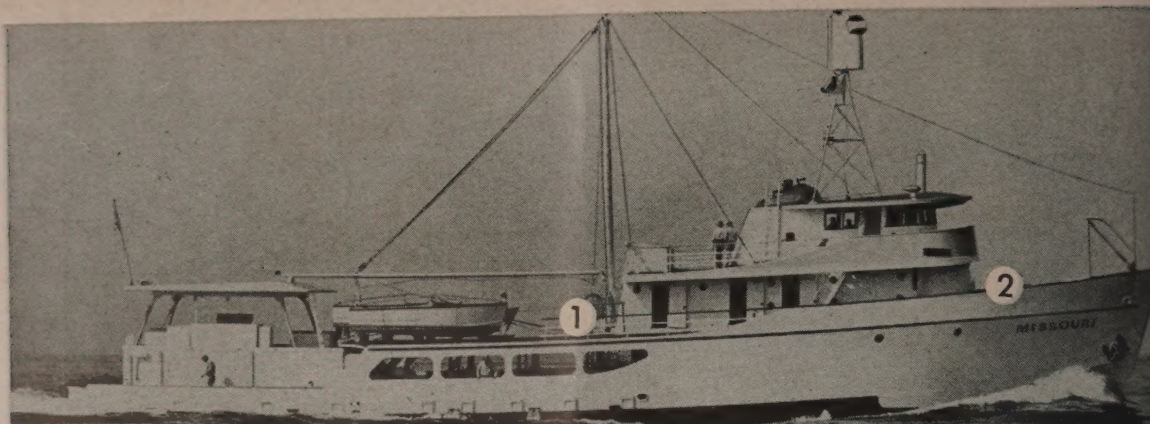
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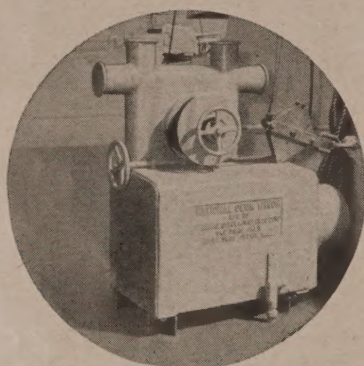
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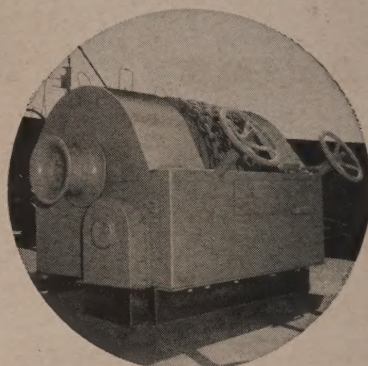


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2 Anchor Windlass

(Illustrated) National Anchor Windlass Model 66. Operated by two-speed $5/10$ horsepower motor at 900-1800 r.p.m. Capacity 1400 feet of $\frac{3}{4}$ " wire rope or 90 fathoms of 1" stud link chain with 1000-lb. anchor. Rate: 50 f.p.m.

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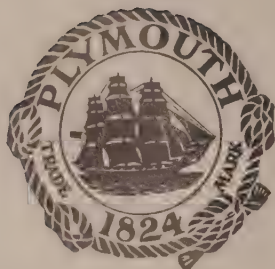


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PLYMOUTH Buoy Line
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PLYMOUTH Pot Warp
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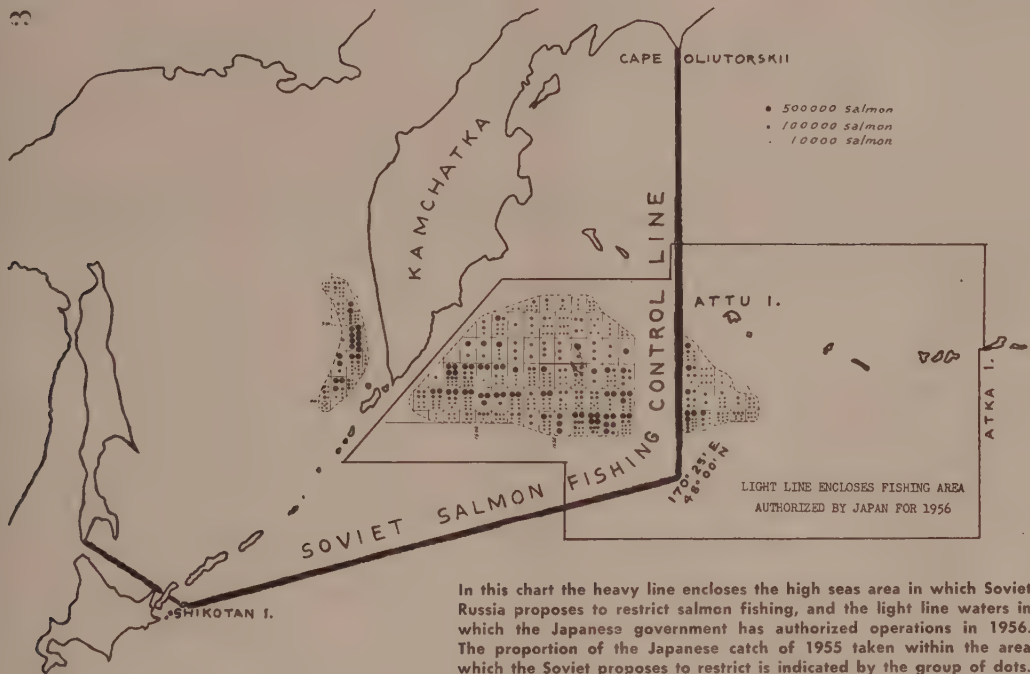
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What are USSR Intentions? And Where Will They Lead?

● Bold action by the Soviet Union threw Japan's 1956 high seas salmon fishing preparations into a Spring turmoil of uncertainty which had not been clarified at presstime.

Acting within a few hours of the suspension of Soviet-Japanese peace treaty talks in London, the U.S.S.R. proclaimed a restricted zone on the high seas off its Siberian coast, in which salmon fishing this season might be conducted only under Soviet permit.

Japanese spokesmen promptly declared they could not accept the Russian action as valid. Further official expression apparently was withheld pending elaboration of the Soviet restrictive program, which was clearly expressed in the proclamation only in the line drawn as a boundary of the area.

This restricted zone is shown on the accompanying sketch chart, which also indicates the very large part of the Japanese salmon catch of 1955 which

was taken in high seas waters over which Russia now asserts restrictive control in the declared interests of conservation.

● **IMMEDIATE** effect of the Soviet action cannot be fully appraised until some points in the program are clarified. One press version indicates intention to limit the salmon catch from restricted waters to 50,000 metric tons—which probably would be less than half the expected catch of the Japanese fleet alone from the restricted area.

Examination of the accompanying sketch map shows that one obvious alternative for the Japanese, with their fleet of 19 salmon cannery ships, served by 588 large fishing vessels virtually ready for operations, is to shift a larger portion of their activi-

ties into the waters adjacent to the Aleutian Islands, lying between 170° east longitude and 175° west longitude —this latter being the provisional line established by the North Pacific Fisheries Treaty.

These optional waters generally do not yield as heavily as those further west, a condition particularly true in 1955. Furthermore, heavy concentration of activity in high seas waters relatively close to the North Pacific treaty line could be expected to have an adverse effect upon opinion in the United States.

● Although the Soviet declaration apparently is limited in its effect to salmon fishing only, and makes no mention whatever of crab fishing, the Japanese are in a quandary with respect to their crabbing in the Okhotsk Sea, where four new motherships had been licensed for operations by the Japanese government.

● **LONGER RANGE** effect of the U.S.S.R. restrictive move promises to be profound.

Possibilities continue to emerge as to the implications of the declaration of authority over the high seas to great distances are examined.

True, the proclamation is temporary in its application, applying only from May 15 to Sept. 15 of this year; but the proclamation says it will be superseded by "appropriate agreements with the countries concerned."

This can be taken as tacit indication of willingness to join in high seas conservation treaties, and possibly in the existing International North Pacific Fisheries Treaty. On the other hand, the declaration may refer to bilateral treaties between nations which have historically engaged in fishing in these waters — which would virtually limit the discussions to Japan and the U. S. S. R.

● Assertion of authority to limit fishing in the name of conservation over a wide stretch of the high seas would seem to give a new elasticity to Soviet policy with respect to territorial waters. In a general way, this policy in the past has inclined toward the "narrow sea" view, although subject to modification running to some miles beyond the three-mile limit where military considerations were claimed.

To assert authority to such great distances from the coast, however, aligns Soviet policy with a view not previously embraced; and would appear to suggest possible Soviet support for the broad view of the width of the territorial sea held by several Latin American republics.

● **EXPECTED**—That U.S.S.R. should move in the matter of high seas fishing in the Sea of Okhotsk and the North Pacific was expected, although such sweeping assumption of authority was hardly anticipated.

Following the remarkable success of the Japanese operations in 1955 it was apparent to the well-informed that the Soviet would make a move.

The degree of relationship between the side-tracking of the Soviet-Japanese peace treaty discussions and the fishery action provides a theme for interesting speculation.

A Tokyo Report, Special to Pacific Fisherman

● The Soviet Cabinet Council's decision to establish a salmon preservation area over a part of Bering Sea, part of the North Pacific and the whole of the Okhotsk Sea, specifying a total limit of the salmon catch in this area for the season of 1956 by the Soviet and "foreign" fishermen at 2,500,000 pieces of fish, surprised the Japanese salmon industry greatly. People in the business had been in rather an optimistic mood since a month previous when it was first reported that the Soviet council ordered the Fishery Ministry to draft a plan of an emergency check measure against Japanese intensified salmon fishing efforts in the offing of Soviet's far eastern territories. The Soviet would not take any drastic attitude, they opined in view the current outward peaceful atmosphere.

At time of writing this report, the Japanese government quarters — Fishery Agency and Foreign Office — held the view that, since no agreement exists between the Soviet and Japan as regards fisheries, any measure to control a nation's fishing operation on high seas with a one-sided action is against international custom and so seems to be of doubtful validity.

● The Japanese fishing companies likewise believe that their government would not recognize the reported Soviet requirement for them to obtain the Soviet Fishery Ministry's permit before they despatch their vessels to the fishing area, as such a requirement would infringe with the sovereign right of Japan.

There seems to be much of political nature in this proposition, they generally believe. They intend accordingly that the rigging and dispatch of

So does its effect upon the Fur Seal Treaty talks which have been in progress in Washington since November.

The relative parts played by international politics, economics and conservation in dictating the move of opportunity for analytical study.

To time of writing, the United States had uttered no official expression of opinion; nor had any come from the International North Pacific Fisheries Commission with respect to the U. S. R. reference to its interest in appropriate agreements with the countries concerned."

Japanese Still Hoping.

their motherships — 12 to Aleutian area and 7 to Okhotsk area — should be carried out as has been planned.

Tsunejiro Hiratsuka, chairman of Japan Fishery Society, is quoted in newspapers as remarking, "We await detailed informations. We are inquiring of our government as to the actual content of the Soviet control measure. When Japanese diet members were invited and visited Moscow, the vice secretary of the Soviet Foreign Office said to them, 'It may be that fishing operation on high seas outside 12 miles off Soviet territorial coast is free. I am of the opinion that Japanese are not over-catching salmon, though the Soviet always so alleges. The Japanese industry has no objection to entering into any agreement with the Soviet Union that she would come to join in the three-partite international fisheries conference of the U. S., Canada and Japan.

● Last-minute reports reaching *Pacific Fisherman* just at press time from Tokyo indicated that the great fishing companies were resting their case produced by the USSR action entirely with the government, but were giving indication of belief that some concessions should be made in order not to interfere with the 1955 operations, for which preparations are already far advanced.

Some of the companies already have curtailed their purchase of fishing equipment, notably gillnets.

Gillnet fishermen at a number of centers have held mass meetings to request the government to take measures to protect their security during the fishing season.

Fish price negotiations were suspended between the mothership operators and the gillnet boat owners.

Stocks of the fishing companies declined sharply on the exchanges.

What Does the Presidential Proclamation do?

Plugs Tuna-in-brine Loophole; Accepts Correction-by-Quota

Long-range possibilities rather than immediate effect marked as significant and important the spring action President Eisenhower in proclaiming a quota on imports of tuna canned in brine.

Perhaps most significance attaches to the fact that as a preliminary to establishment of a quota—at levels above present imports—the President withdrew tuna canned in brine from the provisions of a trade agreement with Iceland negotiated in 1943.

This Icelandic agreement provided the loophole through which tuna in brine has been able to enter the United States at a duty of 12½%, while imports of standard tuna canned in oil, available at the normal rate, dwindled to almost nothing.

With this loophole stopped by the President's action, the United States again in diplomatic position to handle imports of canned tuna on a normal basis. The fiction that tuna in brine is a different product and non-competitive with tuna in oil, a sophistry which has had Tariff Commission support in the past, is virtually wiped-out by the presidential action.

The Eisenhower proclamation provides that the tariff rate on tuna in brine shall automatically rise from 12½% to 25% whenever in any year imports shall exceed 20% of the previous year's American pack of tuna. However, it goes on to note: "Because annual imports of tuna canned in brine are not at present amounting to 20% of the domestic tuna pack, no immediate application of the increased duty will follow through the President's action".

Beside plugging the loophole in the Icelandic agreement, the presidential action seems of great importance in that it accepts the quota method of dealing with economic problems arising from imports.

Producers in the tuna industry in recent months have contended strongly for establishment of a quota on imports of tuna, particularly in the frozen state. With the President's proclamation—and there is no higher authority—the Administration appears to have accepted the quota as an ad-

missible means of dealing with conditions arising as result of imports of fishery products.

● Tuna industry opinion generally was grateful for the gain, but regretful that it did not provide immediate import relief.

William C. Morhead, president of the Californian Fish Cannery Association said in response to a query from *Pacific Fisherman*:

"The President's proclamation

(2) that the government is officially aware that there is a tuna problem to be met and a tuna business that it might be well to preserve. A final question is usually asked: How does this proclamation affect frozen tuna imports? The answer is, not at all. Frozen tuna still enters free of duty or quota. There is still urgent need to acquaint the government with the tuna producer's problem."

Mason Case, manager of the Fish-

California Tuna Operations — March, 1956

(Approximate figures for tonnage and total case pack)

San Pedro			San Diego			Combined	
Species		Tons	Species		Tons	Tons	
Yellowfin	.....	6,145	Yellowfin	.....	3,561	9,706	
Skipjack	.....	2,446	Skipjack	.....	2,606	5,052	
Bluefin	.....	81				81	
Albacore	.....	962				962	
Total	.....	9,634	Total	.....	6,167	15,801	
Pack in cases	.....	448,784	Pack in cases	.....	281,419	730,203	

establishing a tariff quota on tuna canned in brine is welcomed by the domestic industry as the first positive step in support of the tuna industry taken by the government in years.

"There is little of immediate practical value to be gained by the action, however. Imports of tuna canned in brine under the proclamation would need to reach 20% of the previous year's domestic production, or approximately 2,000,000 cases, before the advanced tariff is applied. Imports for the last three years have averaged 1,500,000 cases, and this quantity of itself has been harmful.

"The industry is hopeful that this initial step will lead to a subsequent re-evaluation of the situation on a more realistic basis.

"We are encouraged, of course, that the administration recognizes there is a tuna problem and has served notice that it will not permit the industry to be submerged completely in a sea of imports."

● Reaction of the American Tuna-boat Association is expressed thus: "The significance of the March 16 Proclamation is: (1) that a step has been taken in support of domestic tuna, not in opposition to it, and

ermen's Cooperative Association, San Pedro, said:

"While this does not afford any immediate relief, because we must reach 20% of domestic production before it applies, we feel that the proclamation does give the tuna industry some sort of recognition".

James Lane, president, Westgate-California Tuna Packing Co., expresses his opinion thus:

"While the formula for the duty on tuna in brine is a liberal one, it is the first indication that the Administration recognizes that the tuna industry has a problem. This in itself is a wholesome development.

Gilbert C. Van Camp Jr. of Van Camp Sea Food Co., expresses his opinion in this manner:

"The President has recognized our problem. We are confident that he is sincerely endeavoring to ameliorate some of the untoward conditions in the tuna industry, as well as the other parts of the fishing industry throughout the United States. We believe if he discovered his action in issuing the proclamation to have been ineffective in helping the tuna industry he will recommend other means which will be effective".

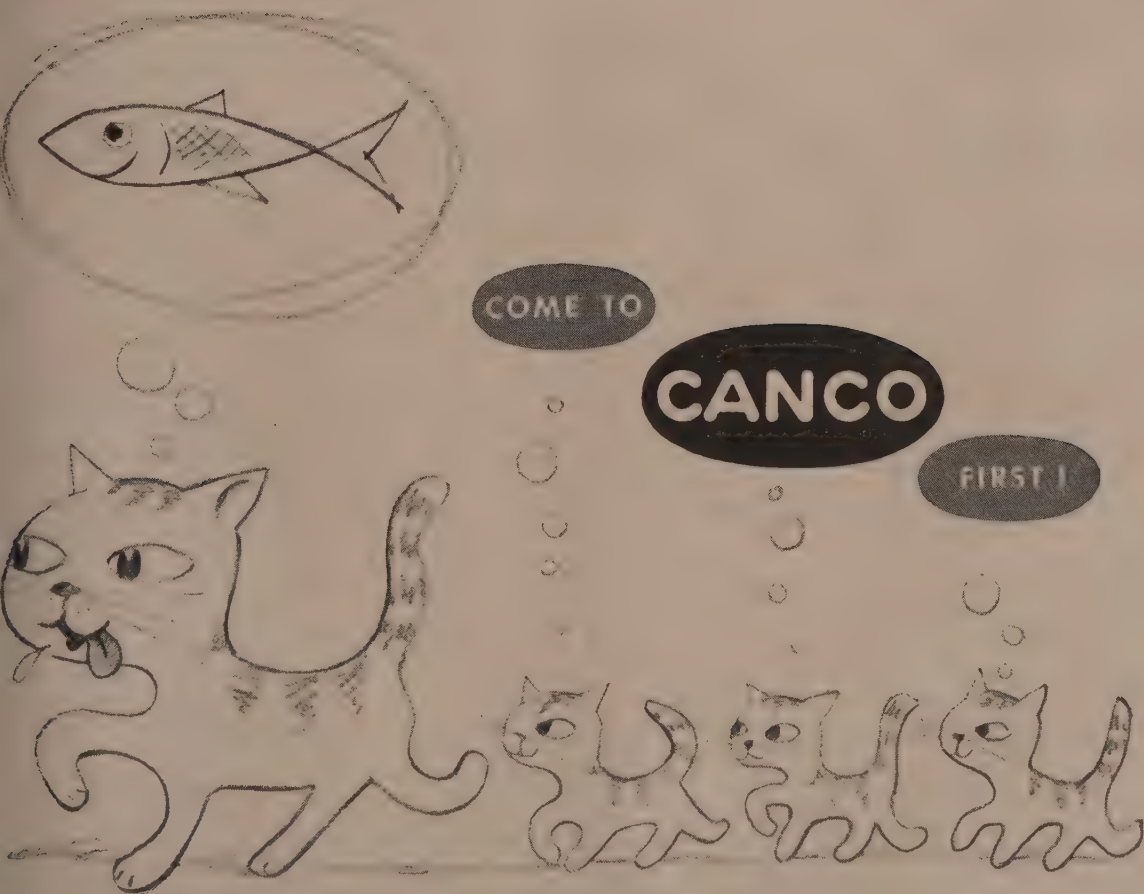
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Revised Sockeye Rules Prove Rigid and Severe

A new set of regulations rigidly conforming with the international treaty has been drawn up for the 1956 Fraser Sockeye season.

Final touches to a proposed draft, submitted by the Sockeye Commission to its advisory committee in Vancouver April 6, were to be given at a meeting several days later.

Revision of the drastic regulations originally presented to the industry in January and later agreed upon by the Commission for enforcement was necessitated by objections raised by Canadian Fisheries Minister James Sinclair. While recognizing the excellent record of the Commission and the sincerity of its aims, Mr. Sinclair had contended that the proposed regulations were "a serious departure" from the treaty as approved by Canada in 1937, inasmuch as they provided for complete closure of an important fish-

ing area.

At the April meeting members of the advisory committee expressed the opinion that the treaty may have to be revised to give the Commission more latitude, and that the time for this might be when Canada and the U.S. deal with the proposal, now supported in both countries, for inclusion of Pink salmon in the international management program.

Since learning of Mr. Sinclair's opposition, the Commission has recast its regulations with a view to meeting Canadian wishes as far as possible while at the same time attaining, by compromise, the objective of scientific management of the fishery.

Here are the new regulations, subject to minor revision:

1. Taking Sockeye on the high seas and territorial waters as described in the treaty, westerly and outside of the

Bonilla Point-Tatoosh Island line shall be permitted by trolling gear only from June 28 to August 5 inclusive, after which the Commission shall relinquish regulatory control of Sockeye salmon fishing within these waters; provided that this order and regulations shall apply only to U.S. and Canadian boats and fishermen.

2. Taking Sockeye in convention waters lying easterly and inside of the Bonilla Point-Tatoosh Island line shall be permitted from 5 a.m. on Tuesday Wednesday and Thursday only each week from June 25 to August 10 inclusive, and from 7 a.m. on Tuesday to 7 a.m. Thursday of each week from August 10 to September 13, both dates inclusive. Taking Sockeye in these waters shall not be permitted from 7 a.m. September 13 to 7 a.m. September 19.

3. Taking Sockeye in U.S. convention waters lying easterly and inside of the Bonilla Point-Tatoosh Island line shall be permitted each week between June 25 and August 10, both dates inclusive, from 5 a.m. Monday to 5 a.m. Friday and between August 11 and September 3, both dates inclusive, from 8 p.m. Sunday to 8 p.m. Friday.

Pink Salmon Treaty Takes Long Step Forward

Governor Arthur B. Langlie in April transmitted to Secretary of State John Foster Dulles the unanimous recommendation of a 16-member advisory committee that Pink salmon be made the subject of study by the United States and Canada to determine the desirability of international control of runs shared by the two countries.

The Governor appointed the committee in November 1955, following an exchange of diplomatic correspondence between the Department of External Affairs of Canada and the U.S. State Department. The former had asked that meetings be arranged "for the purpose of giving immediate study to the problem of pink salmon fisheries with the view to the eventual negotiation of a convention." The matter was referred to the Governor by the State Department.

The committee, which represented a cross section of the Washington fishing industry, concluded that it favored the inclusion of joint pink salmon controls within the existing International Pacific Salmon Fisheries treaty, which is now limited to Sockeye salmon. The proposed study would be conducted by the International Sockeye Commission.

The committee recommended, however, that the "managing agency be empowered only after making the necessary study, to enact regulations for escapement, control of catch, division of catch, as well as control of fishing gear." It said the research program should be initiated under a treaty as soon as possible and should attempt to discover the full range of origin and distribution of pink salmon which may be fished in common by the two countries. The committee commented that research "should not be based upon the hypothesis that the Fraser River pinks are the most important element in the U.C.-Canadian fishery of the area," and should not be confined to treaty waters.

The treaty area for pink salmon in the ocean, said the committee, should extend from Cape Disappointment at the mouth of the Columbia River to Cape Cook on Vancouver Island, and the inland area should not be less than the waters now embraced under the sockeye treaty in the Strait of Juan de Fuca, San Juan Islands and Strait of Georgia.

The committee strongly recommended that studies be undertaken to determine the proportion of pink salmon which enter the common fish-

ery in treaty waters by moving through Johnstone Strait at the northern end of the Strait of Georgia, and that fish taken from such runs should be included in the division of catch between the countries.

In an appendix recommendation the committee said that the treaty should permit the extension of research to other species observed incidentally to the pink salmon study. This would provide valuable scientific data which would be useful in future protection of all species and races of salmon. "It is essential that a foundation be laid for a long range conservation program which will be effective in providing for the proper management of these species in both Canadian and American waters and will apply equally to both Canadian and American fishermen," the appendix stated.

Members of the advisory committee, with their connections in fisheries, were: Robert J. Schoettl, state director, ex-officio chairman; Jerry M. Anderson, Washington R. Net Owners Association; DeWitt C. bert, editor of *Pacific Fisherman*; Norb James, Lummi Island Indian Tribal Council; Joseph F. Zuri, Fisheries Division, International Lo-

oremen's & Warehousemen's Union; ed P. Krilich, Washington State ortsmen's Council; Chet Kfng, 'ashington state representative; A. T. e, Pacific Northwest Fisheries Association; Harry J. McCool, Fishermen's Cooperative Association; Ted akkerud, Seafarers' International ion; Carl A. Nelson, Puget Sound illnetters Association; Ted G. Peter-n, Washington state senator; Jack . Repanich, Puget Sound fishing and nning industry; Matt J. Svornich, urse Seine Vessel Owners Association; Dr. Richard Van Cleve, direc-or, University of Washington School f Fisheries; John S. Wilkinson, Puget ound Salmon Cannery Association.

Sinclair Invites Soviet Scientist to Seattle

● Fisheries Minister James Sinclair, on behalf of the Canadian government, has invited a Russian fisheries scientist to attend the next annual meeting of the International North Pacific Fisheries Commission in Seattle next November, provided that this has the approval of U. S. and Japanese members.

Mr. Sinclair told *Pacific Fisherman* that in view of the international nature of the commission an official invitation would have to be extended by the commission itself, but that so far as Canada was concerned, the initiative had been taken.

The minister recalled that one of the purposes of his trip to Russia last year was to sound out the Russians on possible co-operation, at least on the scientific level, in the management of North Pacific fisheries. He believed that such a move was logical in view of Russia's importance in the over-all fisheries situation in the North Pacific, and he felt reasonably sure that Russia would send a scientific observer to the Commission's meeting if given encouragement.

The suggested visit of the Soviet scientist would be entirely separate from the expected tour of Canadian fisheries by the Russian minister of fisheries, Alexander Ishkov, next August.

What Pacific Packers Wanted to Know About Fish Sticks Standards

● March toward Federal Standards for Fish Sticks continued at a steady pace this spring as industry meetings were held in fishery centers around the edge of the United States to consider a provisional draft prepared by the technological division of the Fish and Wildlife Service with the cooperation and counsel of the National Fisheries Institute.

Generally, the reaction of the industry was favorable to the standards. Although the attendance at the meetings on the Pacific Coast was so light as to give only a scant sampling of opinion.

● Although observers seemed of the opinion that Federal Standards for Fish Sticks are not far off, at present there was no certainty as to what government agency would utter them. Industry opinion seemed unanimous in favor of the Fish and Wildlife Service establishing and administering the standards—if standards there are to be. On the other hand, there seemed to be some uncertainty in the Department of the Interior as to whether or not FAWS had authority to promulgate such standards. It appears that the Department of Agriculture has such authority over food generally, but not specifically over fish; and of course the Food and Drug Administration can establish standards, but within the limitations of its specialized authority.

The industry, working largely through the National Fisheries Institute, and specifically through Harris

Magnusson, its director of technology, has participated actively in development of the provisional drafts of standards for sticks; and gives full evidence of its desire to have any standards which may be adopted, promulgated and administered by the Fish and Wildlife Service.

● Some of the points raised and questions asked at the Pacific Coast meetings, together with answers or interpretations, were:

"Why have more than two grades? Why not just two—*standard* and *sub-standard*? Why not use *terms* rather than an *A* and *B* rating if you are going to have more than two grades? Doesn't "*B Grade*" put a curse on something which is above "*Sub-Standard*"? If you're going to have three grades, why not have 'Fancy', 'Standard' and 'Sub-Standard'?"

"Would the standards as drawn exclude fish sticks formed by extrusion of a mascerated mixture?" Yes; intentionally.

"Would they exclude sticks formed by direct from whole, large fish such as halibut?" At present, yes; although this was not intended and probably could be corrected.

"Why specify the manufacturing method so precisely? Why not limit the standards and specifications to the produce, rather than the means?" No comment forthcoming.

"Is it desirable to prescribe close limits as to size? What would be the effect of such limitation upon sticks prepared to specifications of the in-

stitutional customer?" Answer: Standards would not apply to a product agreed upon with a customer; only to goods offered publicly to the customer.

"We do not believe the standards should confer quality rating on the basis of species preference; but that they should be so drawn as to apply without prejudice to the natural characteristics of the species concerned."

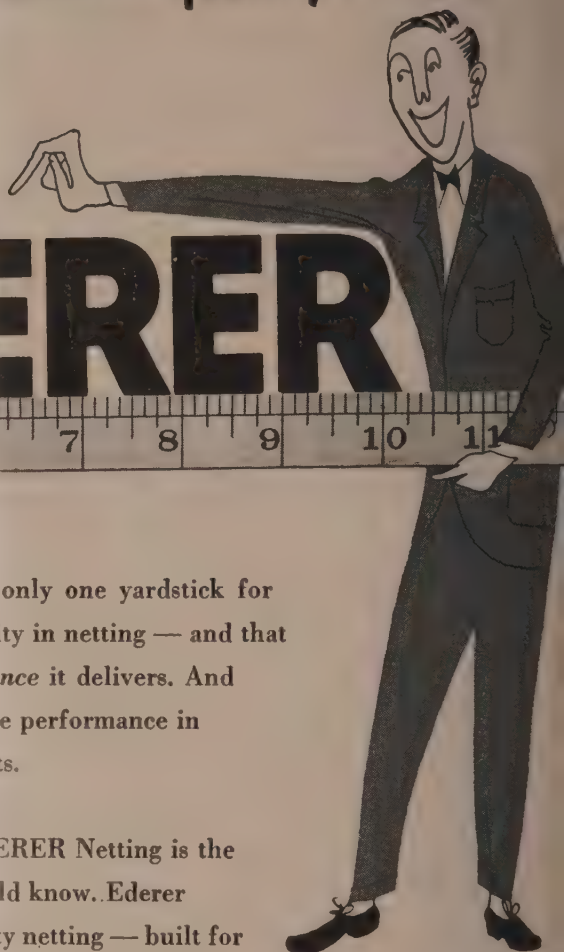
"'*Character*' properly should take into consideration the condition of the package examined as well as that of its contents." (It was emphasized that certification of a product under grade standards examination is no guaranty of condition beyond the time of examination.)

"Why should the standards be quite specific as to breeding materials, *i.e.*, wheat, corn, potato, etc., flour, but not as to the oil in which frying is done? That is specified only as a 'suitable' oil."

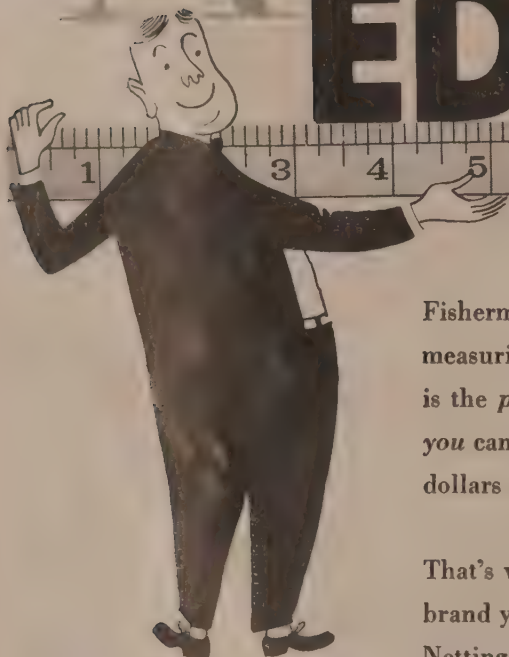
"Why require that the sticks fit a package 'snugly'?" (It was brought-out that this requirement was designed broadly to prevent use of deceptive packages; and not specifically to the practice of packing 8 oz. of sticks in an inventory of 10-oz. packages.)

"Standards' provisions about bones brings up the question of who is responsible for them; and if the fryer is responsible for bone in the blocks he buys". (Answer was that he is responsible for the product he sells; but that FAWS is working on specifications and standards for the inspection of fillet blocks.)

How do you measure quality?

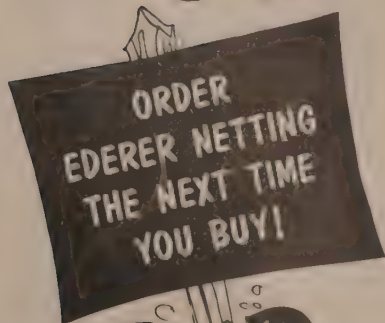


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Choose One Area—One Only; High Seas Fishing is "Out", These are Rules for Alaska

Area licensing is positively a part of the Alaska salmon fishery administration plan for 1956, but at present the details of how it would be carried out had not been revealed.

This step was taken by the administrative officers of the Fish and Wildlife Service as essential to control of fishing to the degree deemed necessary to sustain yield conservation.

Area licensing was decided upon after all other possibilities had been weighed, evaluated and rejected; because either their effectiveness or their cost were subject to question.

When John L. Farley, director; Arthur J. Suomela, assistant director for fisheries; and Donald L. McKernan, Alaska fisheries administrator, made the area licensing decision they did so with the knowledge that it would be bitterly opposed by many—and so it will.

Area licensing was decided upon because of the demonstration in previous years that mobile fishing power, free to move from one area to another with the seasons, had increased to the point where the fishing pressure was more than the resource could sustain while being rebuilt.

- *Sliding scale of weekly closures* will supplement the area licensing plan on Bristol Bay by providing that the number of units of gear registered for each of the four sub-districts will govern the amount of fishing time to be permitted in that sub-district during the week following the period of registration.

Tabular presentation of this Bristol Bay measure accompanies this article. In computing the total number of units in a sub-district, the Service will count one 150-fathom gillnet as a unit. Three set nets equal one unit.

Days of fishing permitted in any week will be determined by the number of units of gear registered in a sub-area by 6 p.m. Friday of the preceding week. Announcement of the fishing time for the following week will be made by noon each Saturday.

- *Ocean Gear Out*—Acting in accord with numerous recommendations from active fishermen, as well as of the American Section of the International North Pacific Fisheries Commission, the Fish and Wildlife Service proposes to restrict fishing on the high seas off the coast of Alaska by American na-

tionals to trolling gear only.

This decision will not be implemented in formal regulation until approved by the American Section. Official announcement says frankly:

"The purpose of the regulation is to prevent the development of an American high seas salmon fishery which would intercept the Alaska salmon runs before they reach waters now under regulation. It has been demonstrated that salmon can be taken in commercial quantities on the high seas to such an extent that protective measures imposed within territorial limits could be nullified."

The international implications are not obscure.

- *Re-opening of Prince William Sound* in a limited way after complete closure for two years is permitted in a limited way by the regulations, but 15 traps in the area will be closed for 1956 to provide protection for the rebuilding runs.

Similarly in Southeast Alaska the closure of traps accounting for about 50% of the trap catch in that area, and of large seining grounds, is continued for a third year.

Attack upon the area licensing regulation can be expected, but not until full details of the program are announced. At present the Service was still polishing the fine points of its plan.

Until they had the full pattern to work on, the opposition was holding its fire. Some of the shooting is sure to be political; and some of it may take the form of court attack.

Charging Seiner Pays Heavily in Canada

poaching doesn't pay in British Columbia, as Captain Joshua McKay of the H. C. Rupert recently found out when his license was ordered suspended for 180 days.

Minister of Fisheries James Sinclair said that poaching in the Queen Charlotte Islands area has given grave concern in recent years and has continued despite repeated warnings.

The minister told the Fishermen's Union in Vancouver that McKay committed "the most flagrant and deliberate offense" by fishing at the extreme end of Hutton Inlet, and if he had not been spotted by a patrol aircraft "would have robbed the stream of its spawning stock" by fishing too close to the stream mouth.

McKay was fined \$500 and each of his crew men \$100. McKay, according to the minister, had a previous conviction and his vessel, *Midori*, could have been confiscated.

Rivers Inlet, B. C., To Limit Sportsmen Fishing

Sportsmen fishing in Rivers Inlet, B. C., will be limited to a daily catch of two salmon and to a seasonal bag of six salmon during the specified period from July 20 to September 15, according to regulations announced by the Canadian fisheries department. The new restrictions are imposed to help conservation controls until continuing biological research enables establishment of a safe seasonal limit.

WHY TIME-TESTED TRIPLE C BEATS THE HIGH COST OF HAUL-OUTS

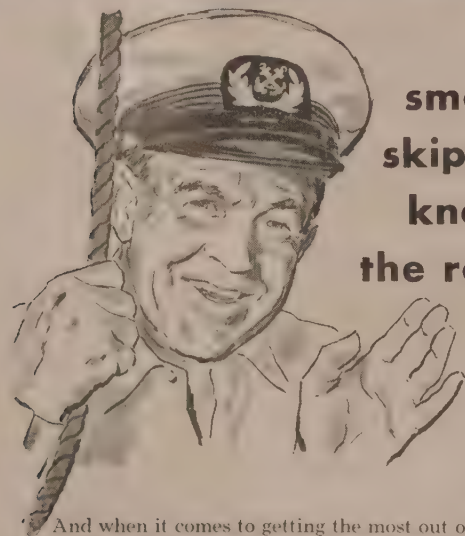
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New Tuna Lay Negotiated By Boat Owners and Union

● Negotiations of tuna boat operators, engineers and the AFL-CIO fishermen's union has resulted in a new agreement which, although completely re-written, retained the traditional "share" basis of compensation for crew and engineers.

The Cannery Workers and Fisherman's Union, headed by Lester Balinger, secretary, had asked for compensation on the basis of so-much-per-ton. Details of the new agreement were not available at presstime for *Pacific Fisherman*, but it was understood that the composite agreement, including engineers and fishermen, was the first revision of contract in recent years; also, and probably most important, is the fact that definition of terminology, as it concerns trip expense, fishing gear, etc., is now more clearly defined.

Concerned in the negotiations with the unions were the American Tuna-boat Association, Harold F. Cary, general manager, and National Marine Terminal, the latter representing about 16 vessels.

● For the first two months of 1956, landings from tuna bait boats was considerably higher than for a similar period in 1955; purse seiners of tuna had an increase in tonnage for the same period and, overall, the domestic tuna fleet's production for this two-month period was about 10,000 tons more than for a similar period in 1955 and neck-to-neck in tonnage for 1954.

Yellowfin led in volume for the first two months of 1956.

● The American Tunaboat Association has announced that President Odria of Peru signed a decree authorizing issuance of fishing licenses to U. S. flag and other tuna fishing vessels.

The provisions of the decree are detailed and include prohibition of the approach by fishing vessels to any of the "Guano Islands" closer than within two miles and other points of Peruvian land. Tuna caught is "not to be transferred to other vessels including motherships, except in port or as specifically provided in the regulations."

The Association states that fishing licenses can be obtained at the Peruvian consulate in Los Angeles or at a major port in Peru. Vessels at sea wishing to obtain a fishing license from Peru must first have a registration certificate.

● The 1956 Panama bait season opened February 1, with no change in the bait laws. In the Canal Zone now a boat can enter at any time without special charges.

The purse seiners for tuna were finding fishing good in the region of Socorro Island, and several boats had completed two trips, including *Marauder* and *Ronnie M.*

The beginning of 1956 indicated firm tuna fishing and far more optimistic outlook than in 1955.

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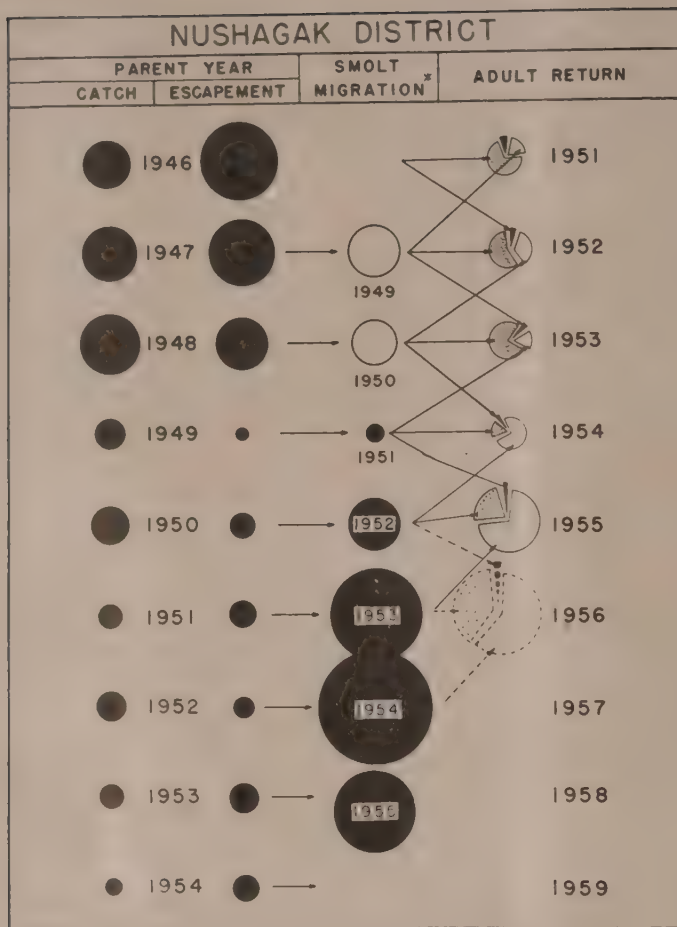
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F. R. I. Nushagak Forecast No. 3

● Red salmon run to the Nushagak system of Bristol Bay will number 5,506,000 fish—catch plus escape-ment—in 1956.

● It will be composed of 3,294,000 relatively small Reds, fish returning after 2 winters in the sea; and 2,212,000 large Reds, of which 2,179,000 will be fish which have spent 3 winters in the sea and 33,000 fish returning after 4 winters in the sea.

With these forecasts, developed by the staff of the Fisheries Research Institute of the University of Washington, Dr. W. F. Thompson, its director, at the annual Fisheries Research

Conference at Seattle in March again took the risky course of laying frankly before the salmon industry *quantitative* and *qualitative* prophesy of what could be expected in the return of salmon to a major fishery.

Twice before such forecasts have been made; and time has proven them surprisingly accurate.

Dr. Thompson released the forecast with evident recognition of the risky character of the venture, for he said: "Forecasting fish runs is a dangerous game. The day will come when our forecast will fail; when Nature will cross us up—but that will only prove our methods must be sharpened further, and tempered and tested by

the continuity of data gathered continuously and studied intelligently."

● The Forecast of 'Fifty-Six came the conclusion of the first decade the Fisheries Research Institute studies, Aubin Barthold, president of the Alaska Packers Association and chairman of the FRI advisory committee, told the capacity audience.

In that period operating companies in the Alaska salmon industry made voluntary contribution of \$650,000 to support the research. This year, 1956, the FRI budget calls for expenditure of \$320,400, of which \$211,000 is provided by salmon canning companies, and \$109,400 from Saltonstall-Kennedy funds. The 1956 activities of the FRI also will include mid-Pacific tagging of salmon under contract with the American Section of the International North Pacific Fisheries Commission.

● **NOT ALL BRIGHT**—While Nushagak forecast for 1956 leads to the expectation of continuing improvement on that stream; with the implication that 1957 will also be good, the FRI reports carried so quiet warnings of the further future.

For example, the seaward fining migration showed a sharp decline after four years of consecutive increase. It was given an index of 221 based on 1952 as 100. The index in 1954 was 438.6; in 1953, 296.1.

Furthermore, there are threatened aspects in the winter just closed. Temperatures were sharply subnormal throughout the Nushagak system; the snow cover was scant. This produced unusually low water levels in the lakes; and very little snow laid the beds thus exposed.

Just what effect this may have upon survival of the spawn deposited in the fall of 1955 is not known.

Assumption that the Nushagak forecast can be projected over other systems, even those of the Bristol Bay region, 1955 proved in error.

Importance of the forecast outside of the specific system upon which data is based lies essentially in the testing of methods of gathering and interpreting data which eventually may be applied widely to the service of the industry and the administration charged with safeguarding and conserving the resource which industry converts to Man's use.

● **1955 RESULTS**—The FRI Nushagak forecast for 1955 was 3,275,000 fish. Actually, there were 2,967,000 fish accounted for, in the catch, migration, and on spawning beds.

Qualitatively, the forecast of 2,1

19 *years*

Ed Cota

Nineteen years ago, young Ed Cota went to work for General Petroleum at the Marine Dock in San Francisco. It was a good job for Ed... helped him work his way through the University of San Francisco, in fact, where he received his A.B. in Education.

After a stint as a teacher at an exclusive boys' school in Santa Barbara, Ed decided to return to his first love—the San Francisco Marine Dock—where in 1941, he became the G.P. marine agent.

Married, and the father of six children, Ed Cota enjoys his job because "I like the people I deal with"—the tugboat operators, fishermen and private boat owners who've made Ed's spot a habit whenever they're in port.

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000 small fish of two winters in the sea almost precisely matched the actual run of 2,143,000 such fish.

Forecast of 1,151,500 large fish was further afield from the 766,159 observed. While study of the data discloses several possible sources of this relatively minor error, it has not yet definitely been traced.

Some changes have been made in the method of forecast, and that for 1956 is based on techniques which the FRI believes will give even more exact results.

● **WE BUILD**—Discussing its forecast of 1956, the FRI report says:

"The forecast of 5,506,000 Red salmon expected in the total run to the Nushagak in 1956 is derived from seaward migration indices which are corrected or confirmed by accurately measuring the age and number of

adults as they return from the ocean after two, three or four winters. It is obvious that for every year in which the present relatively accurate system of observations is maintained, new data are added to elucidate the nature of the relationship between the three classes of fish returning from their forage in the ocean, and consequently the forecast gains in accuracy.

"The purpose in making these forecasts is not only to render available information of use, but to place before the industry in an emphatic way the need for year-by-year accurate determinations of the facts used in forecasts. These include indices of downstream migrants, the proper numeration of the escapement, with analysis by age and size groups. Only these facts will determine the degree of variability to be expected. Our forecasts are, therefore, issued as pro-

gressive steps in an experiment of great significance to the industry, to ascertain whether precise methods will give accurate forecasts. It should also give a knowledge of where and when unusual mortalities occur, in itself a means of forecast, even though each such case upsets the orderly constancy of the life history.

"It should be made clear that such departures from constancy should be expected in nature, and that we must measure them when they occur."

Members of the FRI staff to whom Dr. Thompson assigned development of various aspects of the Bristol Bay project were: R. L. Burgner, assistant director; Dr. O. A. Mathisen, project leader; Dr. S. Y. Koo, D. E. Bevan, Kodiak project leader; Howard Smith, F. V. Thornsteinson, John Gilbert, Wilbur Church, Charles Walker and Orra Kerns.

THE TERRITORIAL SEA

"Agreement Does Not Exist"

● Cleavage between the American republic with respect to their policies touching the territorial seas widened at Ciudad Trujillo this spring.

In the capital of the Dominican Republic a specialized conference of the Council of the Organization of American States met the problem.

Out of it came four points of agreement, three of disagreement, and a statement of United States policy.

To the fisheries these problems of the territorial sea are vital.

● **AGREEMENT** was reached on these four points:

1. The sea bed of the Continental Shelf to a depth of 100 fathoms, or deeper if it can be exploited, is subject to the jurisdiction of the adjacent coastal state.

2. Cooperation among states is of the utmost desirability to achieve maximum sustainable yield of fish.

3. Such cooperation may be obtained most effectively by agreements among the states directly interested in such resources.

4. "In any event, the coastal state has a special interest in the continued productivity of the living resources of the high seas adjacent to it.

● **DISAGREEMENT** was reported on these three vital points:

1. With respect to the jurisdiction and control of the waters above the Continental Shelf; and whether living resources belong to the seabed or the waters above it.

2. On the nature and scope of the special interest of the coastal state in the resources of the high seas off its shores, nor as to how economic and social factors of such states should be taken into account in assessing conservation programs.

3. With respect to the breadth of the territorial seas.

● **U.S. POLICY**—At the conclusion of the conference, the United States delegation issued a statement of the policy of its government thus:

"A. The government of the United States does not recognize a right on the part of a coastal state as claimed by certain delegations to exclusive control over the resources of the high seas. The United States maintains that in accordance with international law fishery regulations adopted by one state cannot be imposed on nationals of other states of the high seas except by agreement of the governments concerned. Moreover, the United States delegation also wishes to record the fact that it made a specific proposal for the conference which would, if adopted, effectively meet the conser-

vation problem that would be posed in the event of failure of the interest states, including the coastal states, to reach agreement on the need for application of conservation measures.

"B. The government of the United States does not recognize that a state has competence to determine the breadth of its territorial sea apart from international law.

"C. The delegation of the United States also wishes to call attention to the fact that, broader considerations having been given at this conference than at any previous inter-American meeting to the various aspects of subject on its agenda, the present resolution of Ciudad Trujillo constitutes the latest and most authoritative expression of the Organization of American States on the subjects discussed herein".

● Resolution referred to called the American states to "continue gently" with study of the points which "agreement does not exist" to the end that "adequate solution" might be reached.

All of this may sound like a lot of diplomatic gobbledygook but the stilted and stuffy phraseology deals with a subject of vital importance to every ocean fisherman, and to every national economy that looks to the sea.

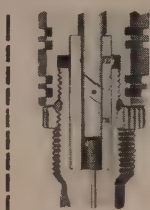
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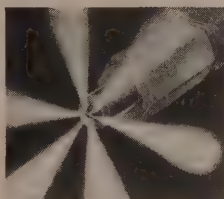
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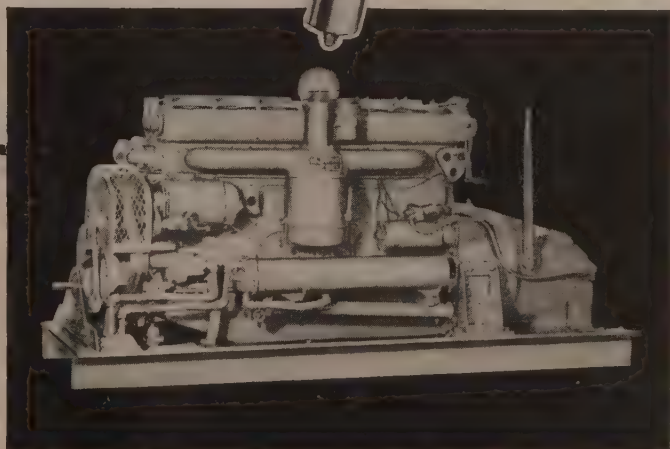
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Have You Heard About Pacific Fish Boat Building

?

Have you heard the plaint:
"Fish boat building is dead. No
boats are being built?"

Well, *Pacific Fisherman* has heard
; and so *Pacific Fisherman* in April
made a little survey of fish boat
building. It makes no pretense at per-
fection. Some boats doubtless have
been missed; but none were counted
which were not positively verified, and
any duplications have been rigorously
negated.

How many? 138.

Repeating: *Pacific Fisherman's* sur-
vey showed 138 new fishing vessels
under construction or being equipped
under the Pacific Coast early in April.

What kind of boats are these?

Fishing boats, we said; but more spe-
cifically they follow a trend manifest
in the fleet of recent years — toward
craft of the smaller types, owned by
the individual and fished by small
crews.

What has made such craft suddenly
the leading factor in fishing vessel con-
struction?

Many factors—among them: the re-
markable reliability and adaptability of
reduction-gearred marine gas engines;
the reduced weight-to-power ratio of
high-speed diesels; development of
means of applying power to handling
fishing gear, reducing the necessary
number of men in the crew; synthetic
fibers in nets and ropes, making for

greater strength with less weight and
bulk; instrumentation which has made
the small craft a safer and far more
effective tool on the high seas; and
the ability of many of the individual
fishermen to finance construction and
operation of craft of this class.

- How big are these 138 boats?

They range from 26' (a few) up to
127' (a few).

The majority probably fall under 50'
in length.

How much power do they carry?
Pacific Fisherman did a little figuring
on that. While information on the
power of the engines going into all of
the 138 new boats was not yet avail-
able, we did know the power of the
engines going into 124 of them—main
engines only; auxiliaries not included.

Average power of the 123 boats was
140 hp.

- What type are these boats?

Gillnetters lead the fleet handily in
numbers — and remember that these
are big, capable gillnetters, able to
cross the Gulf of Alaska and keep the
sea in such ocean operations as crab-

bing and trolling, as well as inside seining
and coastal gillnetting. Yes; but
how many?

Our survey accounts for 68 gillnet-
ters.

Small seiners are next in number;
and here of course there may be some
shifting back and forth between the
smallest of the "jitney" seiners and the
largest of the gillnetters. A reel gill-
netter can set her drum ashore and
ship a turntable in a half-day's work.
Sure; but how many?

Forty-one small seiners present and
accounted for.

Generally these are craft developed
for use around Kodiak Island, and un-
der the special conditions there pre-
vailing. They have proven effective
in Southeast Alaska and Puget Sound
also, and have multiplied in numbers.

Medium Seiners, most of them of
the "Alaska limit" class, numbered 8.
There were two vessels—both built in
British Columbia—classed as "pack-
ers" or "Tenders"; and three combi-
nation fishing craft which are classed
as *Halibuters*, although they divided
their service in seining and trawling



"Westport" is launched March 24 by San Diego Steel and Shipbuilding Corporation for a syndicate of San Diegans. She is 127' in length, built of steel, and powered with a 960-hp. Fairbanks-Morse opposed piston diesel. Auxiliary power is furnished by a pair of 191-hp. Murphy diesels.

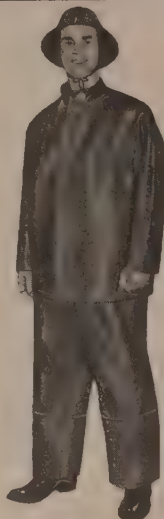
HIGH SEAS- DRY YOU!



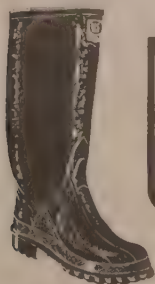
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• strong, heavy-coated fabric • vulcanized waterproof seams • inside fly front • corduroy-tip collar
• bib-front overalls • elastic suspenders • cut-off band, shortens without raveling • in black, yellow



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well as longlining. *Tuna clippers* numbered three, all landing in San Diego, steel craft, 127' length. Nine boats out of the total were listed as *miscellaneous*. *Trollers* are the class in which *Pacific Fisherman's* survey probably failed to find a number of craft, as trollers often are built in the smaller coastal ports from which information is slow in becoming available. We found four trollers; but believe there

are a good many more.

● *Where are these boats being built?* Primarily on Puget Sound. Out of the 138 counted, 115 were located between Tacoma and Bellingham, with the Seattle yards particularly busy. British Columbia craft numbered 14; and here again the list may be incomplete. Moreover, the average size of the Canadian craft is far larger than elsewhere, save of course for San Diego with its big clippers.

SAN PEDRO SEINE SETS

SAN PEDRO FISHERMAN Frank Matur, 57, died recently in a San Pedro hospital. He was a native of Yugoslavia, and leaves his widow, three sons and a granddaughter . . . crewman on the *City of Los Angeles*, John Matovich, suffered an attack of appendicitis while fishing aboard the boat and was taken by Coast Guard plane to San Pedro for medical aid . . . Vince March recently completed 20 years with Star-Kist at Terminal Island . . . Star-Kist says that Vince was international soccer player and that he is now superintendent of mechanical maintenance.

FISHERMEN'S Cooperative Auxil-

iary completed a rummage sale in March and now plan the annual spring luncheon . . . Mrs. Larry Zuanich, whose husband skips the *Stranger*, is in charge . . . Rita Mazella, employed by Franco-Italian Packing Co., has announced her engagement to Gaetano Gigliano . . . Funeral services were held recently for Paul Hedrick, a plant manager for Van Camp Sea Food Co. He was 45 when he died of a heart attack . . . Yugoslav-American Soccer Club, with manager Phil Arzich, is in an active season . . . the team includes Vince Tesulov, Luka Mardesich, Marian Knez, John Aldrich, Tony Evicovich, Phil Knez,

Dinko Bilicich, Paul Biazovich, Pelon Silna, Marin Tesulov, Jr., Steve Gargas, Dave Calder, John Edwards, Pete Fiamengo . . .

Franco-Italian Packing Co., Terminal Island, has been granted a \$200,000 loan from the Small Business Administration, through the Los Angeles regional office. Joseph Mardesich, Jr., president of the firm, states that he feels the granting of such a loan indicates confidence in the Southern California fish canning industry at a time when the industry, fishermen and canners alike, have been striving for recognition of its status as a protein-producing industry.

The loan will be used to some extent for operating capital and the remainder for improving plant facilities.

Two San Diego fishermen left the ranks of the fleet by death in late March. Manuel Cardoso was 56, and had lived in San Diego for 27 years. His son Joseph was on a fishing trip when death came to this father.

Salvatore D'Acquisto was 66 at his death and had lived in San Diego for 20 years since coming to this country from Italy. He is survived by his widow, a daughter, two sons, four brothers and eight grandchildren.

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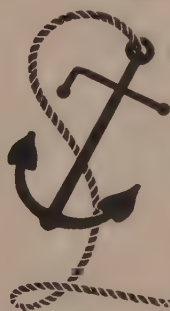
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The Topic Was Tuna—John L. Farley, director of the U. S. Fish and Wildlife Service, makes a point to Harold Cary, right, manager of the American Tunaboat Association, while Dr. A. L. Tester, director, and Garth I. Murphy, chief biologist, of Pacific Oceanic Fishery Investigations, Honolulu, look on.

Can We Correct Off-Color Tuna?

The subject of "off-color tuna" created the most interest in the members of the advisory committee and others attending the open meeting of the Pacific Oceanic Fishery Investigations in San Diego, March 21. A closed meeting of the POFI advisory committee was held the following day.

On the industry problem of "green" tuna came most of the questions directed to Dr. A. L. Tester and G. I. Murphy, of the staff of POFI, during the day-session, which was attended by representatives of the fishing industry

from San Francisco, Hawaii and San Diego.

POFI has stated that there has been some progress in making deep-swimming yellowfin more suitable for canning. Through a contract with the Chemistry Department of the University of Hawaii there have been conducted basic studies on the chemical nature of the green or off-color condition in tuna flesh.

In the San Diego meeting there was discussion of the amount of rejects from the long-line fishing of the boats

which have conducted experimental fishing in the Line Islands, rejected based on off-color flesh. Studies at the University of Hawaii, it was reported, indicate that pigment system in the tuna flesh are heme-proteins which give a spectrum and other tests similar to peroxidase.

Chemists working on the problem of off-color tuna at the University believe that a simple method can be devised to grade tuna, based on the sampling of a cooked 1-inch cube of tuna, cooked for 20 minutes at 100 C. during which time the fish will not turn green during processing.

Canners questioned Tester and Murphy on the use of ascorbic acid, as a reducing agent, to inhibit discoloration. They wanted to know the method of application, and in the case of POFI's experiments, with small portions of tuna only, the dip method was used.

In answer to further questions as to why off-color occurs in larger fish, POFI stated it had not yet found the explanation. During the day's panel discussion was apparent there were many questions that would require study for preparation of answers: do green fish mean spoilage?

Is spoilage associated with "death" of the fish? What is the association between green color of tuna and refrigeration technique? What is the relation between bruised fish and bacterial action?

Honeycombed fish were discussed and there was the opinion expressed that this undesirable condition may develop in cases where the fish are not frozen immediately; and the condition seems related to temperature and the amount of icing.

Perhaps the other topic in the report to the Advisory Committee creating interest was the statement that the POFI laboratory in Honolulu was becoming increasingly convinced that "the skipjack represents the largest single tuna resource in the central Pacific."

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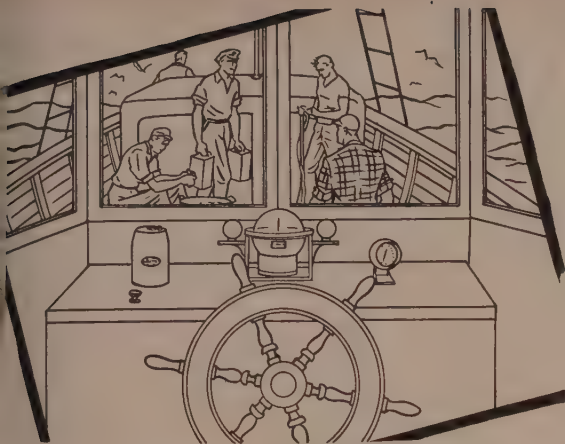
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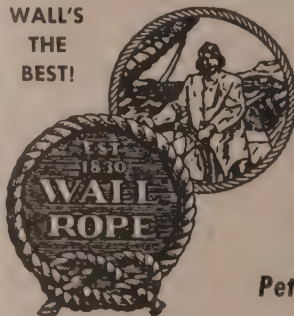
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as. Brandenburg Heads alif. Fishermen's Assn.

James Brandenburg of the *Anita* an out of San Pedro has become resident of the California Commercial Fisherman's Association, Inc., Terminal Island. Officers serving with m are Bill J. Wagner of the *Emmy ou*, as vice president, and Russell arnell of the *Dorothy R* as secretary.

The board of directors consists of: ayden Hamilton, the *El Gralo*; Robert Hoag, *Dundee*; Warren Beadle, *New Daisy*; John Todd, *Minnie Belle*; on Johnson, *Deep Six*; W. E. Campbell, *J. B.*; A. L. McVickers, *Poor Boy*; ius Johanssen, *Belle J II*.

apanese Tuna Vessel ishes North From Chile

A Japanese tuna vessel of 352-ton type, the *No. 13 Kaiko Maru*, has been fishing successfully this spring out of Chile, working north to the Equator.

The venture is under a provisional joint management contract between sesa Fishing Co. of Chile, which provides the base facilities, and Nippon Reizo K.K. of Japan, which furnishes the fishermen and vessel.

The vessel fishes with longline out of the port of Quintero. Arriving ear-

ly in December, 1955, she promptly made a trip of 40 days, working north to the Equator, and taking a satisfactory catch of Yellowfin and Bigeye, but with little Albacore. She was back in port by the middle of February, and departed for a second trip in March.

If this second venture proves successful, the arrangement will become permanent, according to the Overseas Division of Nippon Reizo.

Canada Invites Soviet Fisheries Minister To Visit

The Canadian government has invited Soviet Fisheries Minister Ishkov to visit Canada this summer and inspect fisheries on the Pacific and Atlantic coasts. The invitation was extended in return for the privileges granted to Canada's minister, James Sinclair, who made a tour of Russian fisheries operations last year.

Mr. Sinclair's visit to Russia was the first to be made in that country by a Canadian of cabinet rank, and Ishkov's tour of Canada would be similarly unique for a Russian of equivalent status.

Mr. Sinclair said that he hoped Ishkov would be accompanied by one of his top scientists from the Siberian area where the problems are somewhat similar to those encountered in

the fisheries of the British Columbia coast.

Mr. Sinclair said that discussions with Russian fisheries leaders should be helpful in dealing with the overall problem of salmon conservation in the North Pacific, looking to possible Russian participation in fisheries protection agreements some time in the future.

The United Fishermen and Allied Workers Union invited Russian representatives to attend their annual convention in Vancouver in March, but visas were not issued because of the insufficient notice given.

Mr. Sinclair said he was puzzled by the fact that the Russians who had been invited by the union were not representative of Russia's Pacific fisheries. They were, in fact, members of the Moscow dock workers' union and a food handlers' union.

Disabled Seiner Aided

It was Pacific Towboat & Salvage Company's *Pacific Rocket* that headed south to take in tow the purse seiner *Long Island* when she became disabled off the coast of Mexico late in March.

The tug is based in Long Beach. The *Long Island* is owned by Steve Marchins, San Pedro, and is skippered by Marion Katnich.

Superior

MARINE ELECTRONIC EQUIPMENT



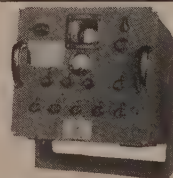
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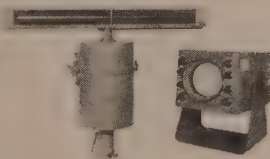
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For long and short-range navigation in any weather. CRT display gives clear picture on 1, 2, 5, 10 and 20-mile range. Patented slotted waveguide antenna, mounted on transmitter, assures superior definition. Ideal where space and generator capacity are limited.



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SINCE
1925

SCOPE and SOUNDER

Monthly digest of present-day pioneering methods and equipment in world fisheries.

By PETRALE

Crowded Populations May Increase Milkiness in Sole

Studies on a stock of English sole in Union Bay, B.C., has indicated that high stock density may increase the occurrence of "milkiness" in English sole. The condition known as "flesh milkiness" occurs in several varieties of bottom fish, including English sole, rock sole and dover sole. According to the Canadian research stations, "milkiness" is always associated with an abundance of a parasite protozoan. The parasite may be the cause of softening and liquefaction of muscle tissue which develops rapidly after death.

After a four-year closure of the Union Bay area to fishing, a dense population of English sole built up. Tagging studies indicated that this stock was independent of other regions and that it should be reopened to avoid waste. In October 1951 a short fishing season was allowed in which 165,000 lbs. of English were landed. Flesh milkiness caused a 21% rejection of fish.

The following year another open season resulted in an average of 8% loss. In each subsequent year through 1954, the occurrence decreased. In 1954, it was reported as less than 1%. During 1954, the population of this stock was estimated to be 1/2 the size of that in 1951. Since the parasite presumed to cause milkiness needs no intermediate host, the incident rate may be higher at higher population levels.

New Gear Research Vessel Is Launched

The spanking new exploratory fishing and gear research vessel *George M. Bowers* is being readied for service in Miami, Florida. The vessel is 73' in length and has lines somewhat like a west coast purse seiner. The superstructure is reminiscent of the west coast exploratory vessel *John H. Cobb*. The *Bowers* will be well supplied with electronic devices to aid in gear research work. Included on the roster of electrical aids are loran, sonar, underwater T.V. cameras, and radio gear.

Propulsion is supplied with a 262 hp diesel which will give the vessel a

steady speed close to 10 knots. The fuel tanks are adequate to give the 92 ton (gross) vessel a 5000 mile cruising radius.

Construction of the vessel was financed by Saltonstall funds at a cost of close to \$150,000, including fishing and electronic equipment. The ship will carry a crew of four, plus two or three scientists. F. R. Strand, a University of Washington trained scientist, will be in charge of the vessel's activities. Working out of Miami, the ship will study new developments in fishing gear, attempt to improve and modify existing gear and explore potential new fishing grounds along the Atlantic seaboard. Exploration for new shrimp grounds will be the immediate objective of the *Bowers*.

Canadians Are Aging Lingcod by Vertebrae

A Canadian biologist, Max Chatwin, using vertebrae of lingcod has been able to estimate age and growth rates for the species. Growth is reported rapid during early life and both sexes of the species may obtain a length near 18" within two years. As in many marine fish, the female attains a larger size and differential growth begins at about age 3. Chatwin's data suggests the female may reach a size of 42" at the end of 15 years, while the male is approximately 36" at the end of 13 years. Both sexes may reach a commercial size of three pounds at ages between 3 and 4 years.

Catches of lingcod by Washington and Canadian fishermen were good in 1955 and Washington trawlers landed an all-time high of nearly 3,500,000 lbs. of this species.

"Cobb" Seeks Shrimp Off Washington Coast

U. S. F. W. S. vessel *John N. Cobb* engaged in offshore shrimp explorations between the Columbia river and Cape Flattery this spring. The survey was a cooperative study between the U. S. Fish and Wildlife Service and the Washington Department of Fisheries. The objective of the cruise was to continue the search for commercial quantities of shrimp. A similar survey carried out in the fall of 1955 showed

scattering of shrimp over a considerable area. Seasonal variations in the availability of pink shrimp are well known and it is hoped that periodic surveys will locate shrimp beds in commercial amounts.

A 40' Gulf of Mexico shrimp trawler was used along with a 20' beam trawler for the investigation. Stewart Springer, Chief of the Exploratory Division from Washington, D.C., accompanied the vessel during the early part of the cruise. Springer has had a background in shrimp investigations in Gulf fisheries.

Early reports indicated catches were good and tows up to 700 lbs. per hour have been made off the Gray Harbor area. The tows made at depths between 50 and 80 fathoms were reported to be relatively free of trash fish.

The *Cobb* is now skippered by John Franko as a result of the recent resignation of Sheldon Johnson, who was skipper of the *Cobb* since her commissioning in 1950. He was also instrumental in designing and equipping the vessel. Capt. Sheldon will take a position with the crab industry.

Dr. Smoker, Biologist, Joins Alaska Department

Dr. William A. Smoker, fisheries research biologist of Seattle, has been added to the staff of the Alaska Department of Fisheries according to C. L. Anderson, director.

Mr. Smoker has just completed nine years in research with the Washington Department of Fisheries, where he directed fresh water research on salmon. He obtained his Bachelor's Degree in Forestry from the University of California at Berkeley, and his Doctor of Philosophy from the University of Washington in Fisheries. He has had a wide background in fisheries research.

Dr. Smoker's work with the Department will be on environmental studies on the fresh water phase of young Red and Coho salmon, with the ultimate goal of increasing the production of these species.

B.C. Coho Salmon Spawning Jeopardized by Rockslides

Engineers of the Canadian fisheries department have been busy repairing damage caused by a heavy rockslide in the Seymour River, north of Vancouver. Believed due to recent thawing, a 30 foot section of the canyon wall cascaded into the river, a huge boulders were strewn along the river's course, jeopardizing the spawning of Coho salmon, due to reach the waters in June.

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GM DETROIT DIESEL

CASE HISTORY No. 556-22

BOAT AND OWNER: 31-foot Gillnetter "Saffie" owned and operated by Robert Carlson, Arlington, Washington.

INSTALLATION: GM "4-51" Detroit Diesel driving 19" x 17" screw through 2:1 reduction.

PERFORMANCE: Owner bought new boat after previous boat blew up. He specified GM Diesel power primarily for safety—but got economy, dependability, too. GM Detroit Diesel was only Diesel that would fit in new boat without redesigning hull. Owner reports GM Detroit Diesel is "lots cheaper on fuel and maintenance. Parts cost less, too."



SAFETY is one big reason why more and more fishermen are switching from gasoline to General Motors Detroit Diesel power. For a GM Detroit Diesel burns less volatile fuel that's a lot safer to have on board.

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Got spring fever? Maybe your engines have it too. Your GM Detroit Diesel distributor or dealer can snap 'em out of it with a spring tune-up. And he'll help you set up a preventive maintenance program to keep your engines running right all summer long. Take care of your engines and they'll take care of you. And remember—Preventive Maintenance Doesn't Cost—It Pays.



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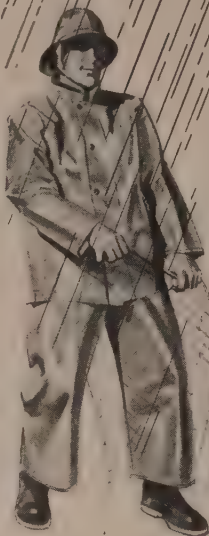
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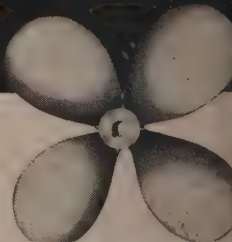
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are standard throughout today's fishing industry, from California to Maine. Experienced owners and fleet-owners know these Columbians just can't be beat for rugged dependability, economical operation.

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Shuman Ousts Olsen in A.F.U. Election

Save for Martin E. Olsen, Portland agent, who was defeated by Swan Shuman, all officers of the Alaska Fishermen's Union were re-elected in the spring voting.

George Johansen and Swan Lundmark, secretary-treasurer and assistant secretary-treasurer, were re-elected without opposition for one-year terms.

Other agents re-elected were Oscar Erickson, Ketchikan; Jack Wood, Ellingsham, and Abe Lehto, San Francisco. Johansen was elected the delegate to the A. F. of L. - C. I. O. convention.

Members elected to the policy committee (executive board) were Henry Gruntman, Arnold Roswich and John Heinig, Seattle; William Lehto, San Francisco, and Les Brown, Ellingsham. Portland and Ketchikan will elect members later.

Clarence Nordahl Chosen by Deep Sea Union

Deep Sea Fishermen's Union, composed of crew members of American alibut fishing vessels, elected

Clarence Nordahl to succeed Harold Grotle as secretary-treasurer.

Mr. Grotle had served for many years in this office, and previously as the union's agent at Seattle; and asked that he not be again elected. In the vote, Mr. Nordahl won over

Nels Stenvaag and Stanley Strom.

Sverre Lund was elected agent.

No action was taken on the question of whether the union should affiliate with the Seafarers' International Union, the Alaska Fishermen union, or retain its independent status.

SAN DIEGO BITE-SIZE ITEMS

● Cabrillo Marina, which has recently been purchased by the Chaffee Boat and Yacht Company, San Diego, is now the dealer for the Interceptor engine . . . Todd Chaffee in charge . . . Viv has a new GM engine . . . C. J. Hendry, distributors for Ederer netting, report that there is an increasing use of nylon in the "sack" of the bait nets of the tuna clippers . . .

MANUEL CARDOSA, 58, who had lived in San Diego for 27 years, died March 17 in a San Diego hospital. He was born in Portugal. His son Joseph is on a fishing trip . . . *Misouri*, the fifth tuna clipper from National Steel, completed her first trip of 45 days, delivering to Westgate-California . . . other clippers returning to port were *Helen Ann*, *Lusitania*, *Excalibur*, *Challenger*, *Mermaid*, *Com-*

mander, *Crusader* and *Shasta* . . . Avelino Gonsalves recently skippered the *Explorer* . . . and the *Mermaid* has a new skipper, Manual Gonsalves, in place of Leo Correia . . . the *Sun Glow*, tuna clipper, recently caught a 54-pound albacore off Clarion Island . . . "this big one was evidently a stray that got in with the wrong crowd," quoting from the newspaper report of this albacore caught in the wrong place at the wrong time . . .

IN the crew of the sunken tuna clipper *Sun Dial* were fishing captain Philip Ojena, and Alfred Rego, Leonard Banwell, Ray Tschohl, William Harper, Charles Ciro, Ioanne Deveros, Benjamin Wather, Marco Najera, Victor Castaneda, Ralph Lum, Robert Pejovic, Nicholas Herrera and Santiago Obas . . .

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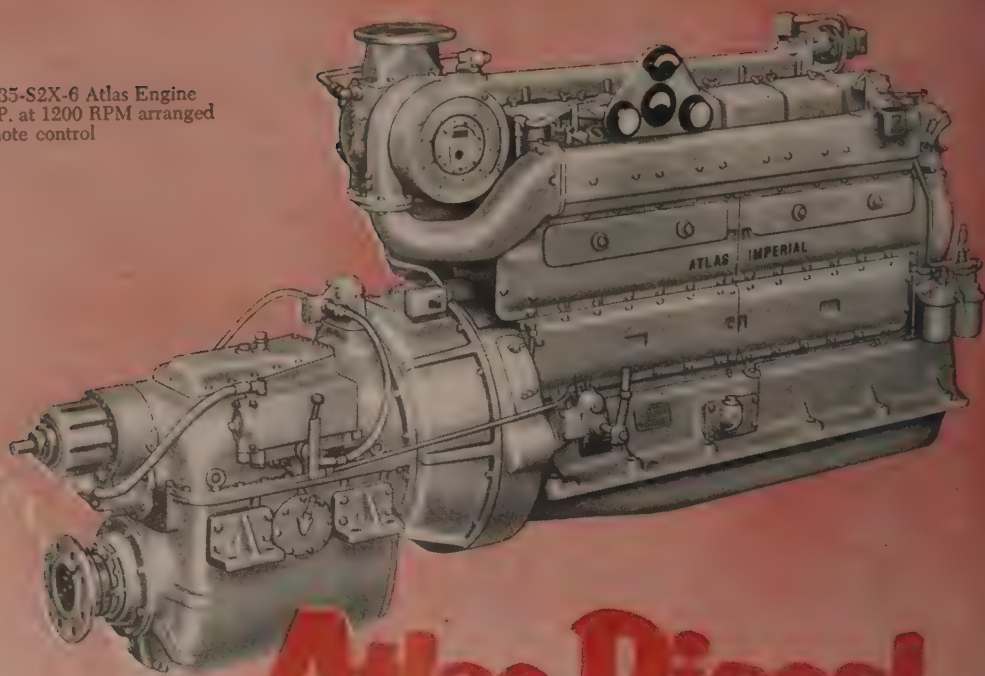
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The 80-foot combination halibut-boat, seiner, and salmon packer, "Martindale". Captain Birger Petersen ran his newly-installed Atlas Diesel Engine for 21 days continuously . . . from Ketchikan, Alaska out to the fishing banks and back to Everett, Washington.

The 300 H.P. Model 35 Atlas Diesel Engine installed in the "Martindale", cut fuel costs 25% by using 1000 gallons less fuel than in previous trips with another engine of 210 H.P. Captain Birger Petersen has proved again, beyond a doubt, that the dependable, long-life, low-cost operation and continual peak performance of Atlas Diesels is the key to greater profits in the fishing industry.

Captain Petersen proved this by subjecting the Atlas Diesel to a grueling initial fishing trip . . . one that included three weeks of continual operation and hauling gear for five days on the banks in the roughest of

weather. Even under these adverse conditions, the "Martindale" returned with a near-record load of 69,000 pounds of halibut . . . and best of all a profit boosting 1000 gallon fuel saving.

This is another example of how profit-minded fishermen are confidently repowering with Atlas or Superior Diesels for longer service life, smoother performance, lower maintenance, and lower fuel and lubrication costs. For every marine use requiring from 95 to 200 B.H.P., there's an Atlas or Superior Diesel that will give you these benefits. Get complete details at your nearest sales and service office listed below.



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Incotta Named Distributor for Columbian Wheels

Cincotta Bros. are also stocking the new

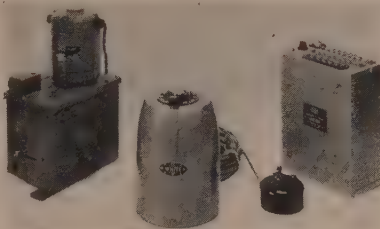
Seven Strand split type markers for salmon trolling. This split type can be inserted although the line is already rigged up for trolling, according to Mr. Cincotta.

"What Size Anchor?" Answered in New Booklet

The new edition may be obtained free by writing Danforth Anchors, 2153 Allston Way, Berkeley, California.

New Murphy Bulletin Available

Bulletin 127, just released by Murphy Diesel Company, Milwaukee, Wisconsin, gives details of advanced design features and output data on their line of propulsion engines, auxiliaries, generator sets and power units designed for marine applications. In addition, this bulletin illustrates the wide variety of jobs being performed by Murphy equipment in marine service. Write the company for your free copy, 5317 West Burnham Street, Milwaukee, Wisconsin.



W. O. White & Sons' new White Automatic Pilot, specially designed for fishing vessels in the up-to-50' size range. It is sized and priced with this particular market in view.

Plymouth Cordage Names Pacific Northwest Representative

A veteran of the Korean War, Mr. Southwick saw considerable action with the U.S. Marine Corps. He is 25 years of age, married and has a young son.



Discover's new False Creek fishing vessel base will be the location of this new home of Offshore, Ltd., Canadian marine supply house, shown here in architect's drawing. The building will incorporate a large showroom, offices, repair shop, warehouse, and parts stock rooms. Offshore are distributors of General Motors Diesels, Johnson Outboard Motors, and Armstrong Siddeley Air-Cooled Engines.



Frank Poole, sales administrator of the Red Wing Marine Corporation, photographed in Seattle, where he closed with Leon Sutter of the Alaska Pacific Supply Co. as Washington and Alaska distributor of Red Wing engines.

Alaska Pacific Supply Gets Red Wing Engine Line

Mr. Poole, who was in Seattle on one of his periodic visits to the Pacific Coast, also announced the appointment of Canadian Fairbanks, Morse & Co., Ltd., 798 Beatty St., Vancouver, as Red Wing's new distributor in British Columbia. He continued on to California to meet with key factors in the trade before returning to his headquarters in Red Wing.

Radio Corporation Intensifies Activity in Marine Field

"RCA believes that marine activities, at their present rate of growth, require a more extensive range of products, marketing facilities and servicing," declared Mr. Folsom. "This is particularly true in the fishing craft field, which now counts customers in the thousands, and it, of course, applies to many other areas where there is a growing market for electronic navigational and safety equipment, radiotelephones and modern communications devices."

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FOR SALE: Sisterships, 35' x 11.5' x 4'. Fully equipped for gillnetting. Ideal for sportfishing or charter work. "STEADFAST"—Built 1955, 100-hp. Cummins diesel with 2:1 Twin Disc gear, Apeldo shone, Ross sounder, capacity 300 gal. fuel, 100 water. "ACACIA"—Built 1954, 60-hp. Hercules diesel, Northern phone, capacity 200 gal. fuel, 75 gal. water. Will sell together, or separately. Call Alder 2900 (Seattle) days, Greenwood 3609 evenings, or write Jim Spencer, 23304 76th West, Edmonds, Wash.

FOR SALE—Steel boat, Monk design, 48'x13'10" x 5 1/2', built 1948, 2200 gal. fuel cap. (double bottom), 31 tons, sleeps 6, fully equipped, light, C. M. Negstad, 943 Solano Ave., Alameda, Calif.

JERRY'S BOAT SALES: For any type or kind of boat or ship. World-wide contacts. Matt Batino-vich, owner and broker. New location: 311 West 7th, San Pedro, Calif. Terminal 3-4482.

FOR SALE OR LEASE: Modern salmon cannery in current production plant on Puget Sound. Crab and shrimp cannery. Write Box 293, PACIFIC FISHERMAN'S NEWS, 71 Columbia St., Seattle 4, Wash.

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TROLLER HATTIE JO: OA 46 x 12-6 x 7-8. Built 1950. Gross 29, Net 18. Fully equipped. Albacore and Salmon. Complete information and picture on request. G. G. Gunn, 524 Neptune, Encinitas, Calif.

FOR SALE YARD: Two covered ways; 1000 T. and 300 T., Boat material on hand. Good harbor on Columbia River at Rainier. 1/3 down and income property. Retiring. Write Box 380, Pacific Fishermen's News, 71 Columbia St., Seattle 4, Wash.

FOR SALE: 39' Monk Design Troller, btr 1955, 6-71 Dal. 15 Ton Hold. \$11,000. 83' Seiner, 240 Atlas, Cat. Aux. 105 Ton Sardine, \$17,500. 38' Seine Stern, 90 H.P. Dal. new 1956, 10 T. refrig. net gurdy, bait tank, \$13,500. FRANK SIMON ASSOCIATES, Berth 205A, P.O. Box 834, Wilmington, Calif. TE-3101.

TROLLER—off Monk design, 43 x 12.7 x 6.7 btr. 1950. Chrysler gas. Equipped salmon & albacore. \$14,000.00. COMB. BOAT—51 x 14.5 x 6.3. Btr. 1940. GMC diesel. Salmon, lampara, shark net gurdies. Cap approx. 40-tons sardines. \$17,500.00. DRAGGER—45 x 13.2 x 6.3. Btr. 1939. GMC diesel. Electronically complete. All drag gear. \$15,500.00. DONALD L. WOODWARD, JR., 901 19th Ave., Oakland 6, Calif. Kellog 2-8158.

FISHING BOATS FOR SALE: Trollers and Monterey Purse Seiners. DON WOODWARD, Boat and Real Estate Broker, at Marine Supply Store, PO Box 45-A, MOSS LANDING, California. Telephone CASTROVILLE 6652; or apply at OAKLAND ESTUARY BRANCH, Don Woodward, Jr., Manager, care Evans Radio Dock, 901 19th Avenue, Oakland, California; Telephone KELlog 2-8158.

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Carlo Crivello, San Francisco, has repowered his hook and line boat with Chrysler Crown engine, Sen-Dure heat exchanger, and fresh water cooling system purchased from and installed by Boice & Boss, Fishermen's Wharf, San Francisco. The engine, which has a Twin Disc free power take-off, has a 2 1/2-1 reverse and reduction gear.

B. Brocato, San Francisco, has repowered his hook-and-line boat with Chrysler Crown with 3-1 reduction gear, Sen-Dure heat exchanger, Boicelli & Boss fresh water cooling system, and Twin Disc free power take-off.

Next sardine season the well known Monterey purse seiner "Dux" will be skippered by Filippo Billante, Monterey, formerly of the purse seiner "Anna B." "Dux" is owned by Angelo Maiorana.

Miss Mary Anne Maiorana, daughter, John Maiorana, owner of the Monterey purse seiner "Frances Marie," and M. Maiorana, was married last month in Monterey to Gaspar Aliotto, Monterey fisherman.

Miss Marie Gandolfo, daughter of Frank Gandolfo, well known San Francisco fisherman, and formerly skipper of the purse seiner "Aurora," and Mrs. Gandolfo, was married in San Francisco last month to Frank Piscatello.

The Monterey purse seiner Providence managing partner John Mineo, received complete overhaul at the Sausalito Shipbuilding Co. Sausalito.

The many friends of Mr. Mineo will be happy to learn that he is recovering from a major operation.

James Davi, managing partner, J-D Packing Co., San Francisco, accompanied Mrs. Davi, left last month for a visit to Europe. While there they will visit relatives in Sicily.

Baptist Balestrieri, San Francisco, has repowered his hook-and-line boat Sal with a Graymarine Model 100 engine, an Sen-Dure heat exchanger, purchased from and installed by Hall-Young Co., Fishermen's Wharf, San Francisco.

Miss Marian Ewald has joined the staff of the Wilmington office of Radiomar Corp., which is under the management of Wayne Helfer. Miss Ewald has served with RCA, marine, for 22 years, San Francisco office.

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41

Standard Engineer's Field Report

CASE HISTORY
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PRODUCT
Puget Sound Tug & Barge Co.
FIRM *Seattle, Wash.*

"Practically no wear" on heavy-duty engine after 51 months tough service



"IT'S THE CLEANEST TWO-CYCLE ENGINE I'VE SEEN," said Port Engineer Tom Davidson, when he inspected the MV Wando's 1800 HP Fairbanks-Morse diesel after four years of rugged work for Puget Sound Tug & Barge Company. The engine used RPM DELO Lubricating Oil since its purchase from war surplus in 1950.

Mr. Davidson reported there were "No clogged lands or stuck rings, practically no ring, liner, bearing wear or carbon deposits". This 10-cylinder diesel was so clean, original paint was still visible on case interior in spite of 5,056 logged hours, many of them

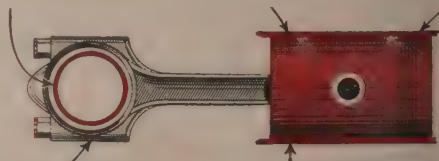
in extended ocean voyages. The Wando once traveled from Seattle to Baltimore, picked up a large ferry and towed it back to the Pacific Northwest.

Why RPM DELO Oils prolong engine life

Special compounds stop corrosion

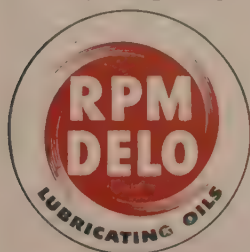
Anti-oxidant resists lacquer formation

Detergent keeps parts clean



Inhibitor resists foaming

Metal-adhesion qualities keep oil on parts in running or idle engine



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FOR EXPERT HELP on lubrication or fuel problems call your Standard Fuel and Lubricant Engineer or Representative, or write to 225 Bush Street, San Francisco, California.

STANDARD OIL COMPANY OF CALIFORNIA

Moss Landing Sales ft Many Boats

Joe Spadaro of Monterey recently purchased the *Jolaine II*, which he renamed *Gasper Boy II*. The boat is a 44' combination, powered with a 1 GMC. A Bendix D/1, 100-fathom depth indicator was installed on the *Gasper Boy II* by Colonial Shipyard at Wilmington. Joe is the skipper of the *New Maretimo*, 70' purse seiner, fishing for sardines during the season. His new boat will enable him to fish for salmon, Albacore, lampara and squid the year around in Monterey bay.

The 41 foot northern troller *Whitecap* has been purchased by Ralph Phillips of Costa Mesa from partners Annie B. Shore of Pacific Grove and O. Benny of Salinas. Phillips is owner of the *Amada* which was in an explosion off Cedros Island in September.

The *Whitecap*, which will be renamed *Amada*, is equipped with a 1967-671, the Olympic propeller is driven through an Akerite stern bearing. The radio is a custom built Sigset. The boat has an Apelco detection finder and Miller-Freeman mike, 3 spool Kolstrand gurdies, Kolstrand anchor winch and a H.P. Fairbanks diesel refrigeration system. The *Amada* will join the fishing for salmon and albacore.

Moss Landing boats which will fish off Westport this season are Oscar Penola's *Ann-Marie*, the *Belle J.*, operated by Arthur Vienola; Peter Solveig's *Solveig*, Oren Addleman's *Doris J.* and Bill Johnston's *Elsie*. The number is fewer this year than usual due to the late opening of the Washington season.

Deliveries of basking shark to the Tallas Tallow Co. continued through the month of March. In one day the three boats brought in 10 shark averaging 150 pounds of liver apiece. Participating in the big haul were Santo Esteri and Jack Daniels on the *Spinnet*, Jack Norman and Stanley Haslam on the *Glacier* and Bill Tomlinson and Bill Jr. on the *White Angel*.

Moss Landing lost one of its young fishermen when Joe Madden was assassinated in the engine room of his boat *M. Bill Johnson*, working on his boat *West* nearby, found Joe after he failed to appear on the dock where his wife Barbara was waiting.

Polaris is the new name of the *Etta*. Alfred Jensen of Watsonville has purchased the former 38 foot Coast Guard patrol boat from Henry Clausen of Gonzales.



Alioto Headquarters—New plant of the F. Alioto Fish Co. at San Francisco's Fishermen's Wharf, with three of the firm's principal figures below. On the left Frank Alioto, president. Sal Tarantino, secretary-treasurer, is on the right. In between, Frank Tarantino, sales manager, busy on the phone.

Special Room for U. S. Orders Features Alioto's New Plant

• A unique feature of the new plant of F. Alioto Fish Co., 440 Jefferson St., Fishermen's Wharf, San Francisco, is the special room, provided for the sole purpose of packing fillets for government orders.

The room is 20 x 21', equipped with filleting tables and washers. The fillets are packed in 10-lb. cartons, wrapped in cellophane, quick frozen, and packed in master shipping cartons, six to the carton, put into cold storage, and shipped out as the Army needs them.

The new building of the F. Alioto Fish Co. is two story, frame construction, and was designed for the quick and efficient handling of fresh fish. It has an area of about 15,000 sq. feet. On the second story are the executive offices, and the ground floor is given over to fish processing.

Just a few yards away is an older building of the company, formerly the main plant of the company, but now used solely as a receiving station and quick freezer. This building is located on the water, and fish boats are able to unload their fares with

a minimum of waiting time.

The older plant mentioned above has three sharp freezing rooms, and freezing is accomplished with a 7½-hp. Carrier, a 3-hp. York, and a 2-hp. York ice machine. A fork lift truck is used for carrying the frozen fish from the old to the new plant.

The new building has two cold rooms, each 20 x 20, and there are two Carrier ice machines, 7½-hp. and 5-hp., with automatic defrost.

The officers and personnel of F. Alioto Fish Co. are among the best known and most experienced in the California fresh fish business. Frank Alioto, brother of Ignazio and Sal Alioto of the Consolidated Fisheries, Inc., is president. Tom Lazio, head of Tom Lazio Fish Co., Eureka, is vice-president; Sal Tarantino is secretary-treasurer; Mario F. Alioto, son of Frank Alioto, is general manager; Frank Tarantino is sales manager; Sergio Cincotta, contacts the fishermen and boats, Pete Tarantino is floor foreman, and Tony Tarantino, is branch manager of the Fort Bragg plant.

18th Annual Salmon Cutting



Keeping an Eye on Quality

● Broad improvement in virtually every category of quality was manifest in the findings of the 1956 Canned Salmon Cutting, as compared with the results of the 1936 judging 20 years before.

First, the fish themselves were better in every species; better size, better color, better oil, and almost no water-marking.

Second, the care which had been given the fish showed measurable improvement, with better filling, and a minimum of pugh marks, bruises.

Cleaning and Salting were the sole characteristics in which improvement was in doubt.

● These points were the summing-up of results of the March cutting at Seattle, as reported to the cutting crowd by Walter Yonker, chemist of the Northwest Branch of the National Cannery Association, and general chairman of the cutting.

Further, he reported that the 1955 pack as examined at the NCA Seattle laboratory, showed a very marked improvement in quality over that of 1954.

In this connection he particularly emphasized the exceptionally good color of the Pinks and their unusual oil content.

This showed, he felt strongly, a definite upward trend in the quality of canned salmon.

● The 18th cutting was attended by William U. Hudson of Oakland, Calif., new president of the National Cannery Association, as well as by his immediate predecessor, E. E. Willkie, president of Pacific American Fisheries.

George Suddock, who recently retired from the staff of the American Can Co., and who through the whole history of the salmon cuttings had borne much of the responsibility and

To Catch the Eye and Charm the Palate

● Display of colorful specialties created by Sea chefs to use canned salmon as the essential ingredient in prepared dishes was one of the features which set the 1956 Salmon Cutting apart from 17 predecessors.

The platters proved to hard-headed packers that salmon can be promoted on the basis of appeal to the eye as well as the palate. The display was developed to supplement the showing of the remarkable amount of promotion publicity engendered during National Canned Salmon Week.

is
Trend
The

done much of the work associated with them, was given a glad hand and a present by the NCA Northwest Branch, which sponsors the annual cutting.

Species chairman who handled the cutting under Mr. Yonker's direction were:

Chinooks and Kings — Harry Tallman, Seldovia Bay Packing Co., chairman, with A. J. L'Amie, Columbia River Packers Association, assistant.

Sockeyes and Reds — Philip Campbell, Deming and Gould, chairman, with R. M. McFarland, Libby, Neill & Libby, as assistant.

*Coho*es — Walter C. Meredith, Ley-Clarke Co., chairman, assisted by John A. Lauc, Kayler-Dahl Fish Co., assistant.

Pinks — Harald B. Friele, The National Packing Corporation, assisted by James Stephens, Oceanic Sales Co., assistant.

Chums — Randall Beard, Newland Fish Co., chairman, assisted by Norman S. Rockness, Alaska Packers Association.

● Judges who painstakingly examined and appraised the 701 cans of Alaska Pacific Salmon Company were Patrick Douglas, C. P. Skogmo,

e always wanted to be a fisherman...

now he's **The Tuna Titan**

...meet **JOSEPH J. BOGDANOVICH**

November of 1952, a lifelong dream was realized when president Joseph J. Bogdanovich saw the start of operations at the Star-Kist Company's new Plant Number Four, at Terminal Island, California — the largest modern tuna cannery in the world. The dream was both his and his father's, and it dates back to 1917, when his father, Martin Bogdanovich, ten years after his arrival in this country from Dalmatia founded the French Sardine Company in Los Angeles harbor.

salt water in his veins for years. As he puts it, "Ever since the age of six I've wanted to be a fisherman. Commercial fishing strikes me as more thrilling and exciting than the average business pursuit and more adventurous than fishing for sport. Even with modern scientific detection developments like radar, there's a thrill in searching out and stalking schools of fish all over the ocean and the excitement is terrific when you spot a school from the crow's nest; there's nothing like it on stream or shore anywhere."

up yet with any machine substitute for the "fish smeller", whose job it is to rub his fingers through the slitted fish belly and reject any questionable smelling carcass).

Extraordinary as this production record may seem, Mr. Bogdanovich is anxious to improve it still further. But like most commercial fishermen, he's disturbed by the economic conditions most fishermen face these days. "It's a



under Martin's able guidance the company prospered, expanding still further when young Joseph came into the business in 1934 and strongly added concentration on national promotion of the relatively little-known "Star-Kist" tuna label. Ten years later Martin Bogdanovich died—at the peak of his career and during a patriotic War rally. Thus, Joseph suddenly found himself at the head of one of the fastest-growing concerns in the fishing industry.

though grieved at his father's sudden passing, Joe dug in with the enthusiasm of his years—a quality undiminished to this day. "Joe Bugs" as his friendly competitors call him, has had

The 194,000 square feet of space in the mammoth new cannery is light, airy, and designed for maximum assembly-line efficiency. Employing over 828 workers on nine or ten production lines, the plant turns out, during an eight-hour day, 350 tons, 14,000 cases, or 672,000 cans of Star-Kist tuna. From the dockside unloading gear (average weight of fish is ten pounds) to the final labelling of the can, Star-Kist Plant Number Four is a cannery built to process tuna and tuna alone. Result is a production quota far ahead of any other plant in the world today. (Equipment is of the latest and fastest, of course — though even Joe Bogdanovich hasn't been able to come



tough life," he says. "The men are away from home anywhere from two weeks to three months at a stretch. It's not a business with the comforts of many other occupations, so it is not particularly attractive to the average American. Here in Southern California — as elsewhere—the love of fishing is usually inherent in a family or a racial group. Fishing fleet owners and operators pretty much come from the same stock, generation after generation and they comprise an intrinsic and extremely important factor of this industry."

Pushing ahead with production plans the way he does, Mr. Bogdanovich seldom takes time off, but when he does, his idea of a vacation is what most people would call a "boatman's" holiday—he likes to go fishing. When he isn't doing that — attending college football games and playing golf come next in order.

Mr. Bogdanovich is married and the father of three sons.

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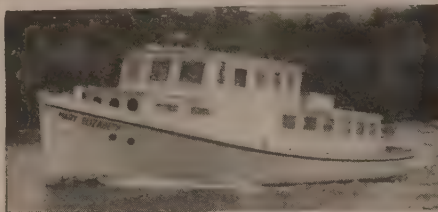
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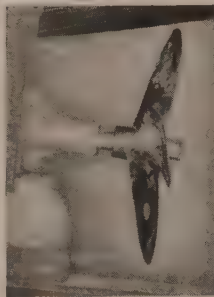
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From
keel bolts
to stove top
Monel
protects
the "Mary
Elizabeth"

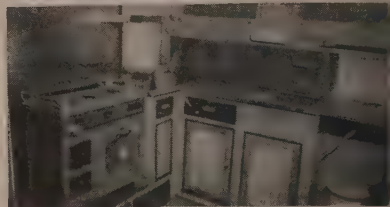
48-foot Mary Elizabeth — She's a sturdy patrol boat owned by LaTerre Company of New Orleans, La. Powered by 94 S.H.P. General Motors diesel engines, she's designed for long-term economy! In building her hull Covacevich Shipyard of Biloxi, Miss., used . . .



Monel propeller shaft promises years and years of rugged service. Why? Monel nickel-copper alloy is strong and tough, resists salt water corrosion. So the boat's rudder stock is of Monel, too.



...Monel bolts, nuts and washers that won't corrode away hold keel, frames, floors tight for good. Planking, too, is held permanently in place — with Anchor nails of Monel. They hold like a screw and give a real economy!



The stove's cast Monel top and Rigid-Tex turned Monel door stay shiny with just a drop of a scouring cloth. Mary Elizabeth owners also fitted her out with rustproof Monel shower pan . . . Monel fresh water and diesel fuel tanks.

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"Olympic"—"Ocean Spray"
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PINK

"Waterfall"—"Ocean Blue"

CHUM

"Golden West"—"Golden Glow"

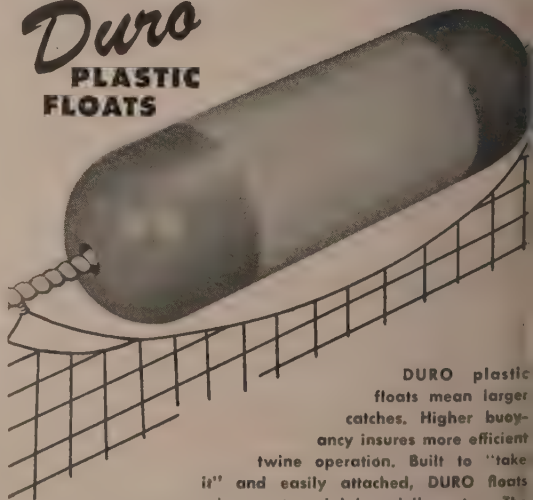
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Alaska Packers Association—Wm. Beveridge, Fred W. Butler, J. D. Cooper, Lee Higginson, Arthur James, Jack P. Wolf, Sam W. Wolff.

Alaska Shell Fish, Inc.—Gerald Oaksmith, Maurice Oaksmith, W. S. Olson, E. J. Villa.

American Packing Company—Jack Bowman, John J. Theodore.

Bellingham Canning Co.—Warren Welsh.

Bellingham Warehouse Co.—E. W. Hansen.

Henry Bogler—Henry Bogler.

Burk Canning Company, Inc.—Adolph Olson.

Chignik Fisheries Company—Ben Bender, George A. Skarbo, Wayne Smith.

Columbia River Packers Association, Inc.—Vern O. Larson.

Dehn and Company, Inc.—Walter Johnson, Jr., Ken Williams.

Deming and Gould Company—Robert B. Pride, Charles V. Hazel.

Farwest Fishermen, Inc.—E. F. Burgess, Milton A. Smith.

Farwest Wrangell Co., Inc.—Bert Benson, H. G. Heaton, Roy L. Henderson.

Fidalgo Island Packing Company—Fred Gunderson, Bob Newell, Alfred Smith.

Fishermen's Packing Corporation—J. I. Mustacich, John N. Plancich.
Food Specialty Company—Eddie Sher.

Friday Harbor Canning Company—Roy Gresli, George P. Jeffers, Earl M. Kiehl, James K. Terry.

Global Fishing Company—Fred W. Wheel.

Haines Packing Company—George King, Ed Thorell.

Halferty Canneries, Inc.—James A. Raymer, F. E. McConaghy, Vernon Paulson.

P. E. Harris Company, Inc.—John Coffey, Carl E. Moses, Karl G. Paulus, Laney Stangeland, M. F. Lockwell, Anton Trutanich.

Hood Bay Salmon Company—John Thompson.

Independent Salmon Canneries, Inc.—H. Ray Clark, N. J. Haugland, Hans Sohol.

Intercoastal Packing Company—William A. Culliton.

Kadiak Fisheries Company—William Dolphin, Fred Meyer, Donald Mullis, Otto Olsen, Robert H. Osterle, Carl W. Sifferman, Wilmer Sparring.

Kelley-Clarke Company—C. William Frandland.



N.C.A. at the Cutting—William U. Hudson, left, president of the National Cannery Association, attended the 18th Canned Salmon Cutting staged at Seattle in March by the Association's Northwest Branch. With him is Walter Yonker, examining chemist at the Branch's Salmon Quality Control Laboratory, who was general chairman at the 18th Annual Cutting.

Kenai Packers—Harold A. Daubenspeck.

Ketchikan Packing Company—Douglas Payne.

Klawock-Oceanside Packing Company—E. L. Grimes, E. S. Moyle.

Libby, McNeill and Libby—Carl A. Aspelund, D. F. Brennan, A. W. Burrell, Frank W. Eastman, J. A. Ekern, O. L. Elgin, R. D. Hodgling, L. Nerland, A. R. Pearmain, L. P. Rasmussen, Richard J. Smith, R. J. Springhill.

Lutak Fish Company—E. B. Lowman.

The Nakat Packing Corporation—Charles Bradford, H. T. Englund, Don Franett, H. F. Friele, H. W. Gundersen, Gordon F. Hecker, Joe Schmotzer.

New England Fish Company—Tom Andersen, Victor Carlson, Tonnes Hanson, Gunnar Johnson, Monty Tucker, Sun Yip.

Northern Products Corporation—Robert E. Dignon, Leif Eriksen.

Northwest Reconditioning Company—Clarence D. Gibbons.

Ouzinkie Packing Corporation—Eric Bulmer.

Pacific American Fisheries Inc.—Carl F. Anderson, Henry G. Bass, Galen A. Biery, John A. Gillis, Henry R. Hube, Ivan Finsberg, Tom Johnson, Harold B. Nordberg, Herbert Norbistrath, Steig B. Osman, V. M. Prince, Ralph C. Rogers.

Pacific Pearl Frozen Foods, Inc.—Rolf E. Friele.

Parks Canneries—Chas. B. Doug-

las, Robt. F. Morgan, LeRoy Peterson, Justin V. Strom, Chas. H. Wright.

Pelican Packing Company—Ole Lie, Peyton A. White.

Frank B. Peterson Company—Emery Stanley.

Red Salmon Company—Vernon D. Jones.

San Juan Fishing and Packing Company—Ivan L. Fox, Marvin Goodall, George W. King, Al O'Leary.

Scheerer Canning Company—Eugene C. Scheerer, Dominick Svor-nich.

Walter P. Shiel and Company—Walter P. Shiel, Jr.

Seldovia Bay Packing Company—O. P. Floe, Harry Froid.

Washington Fish and Oyster Com-pany—E. H. Algyer, Raymond W. Beck, Alfred J. Nielsen.

Ivar Wendt—Al M. Irvine.

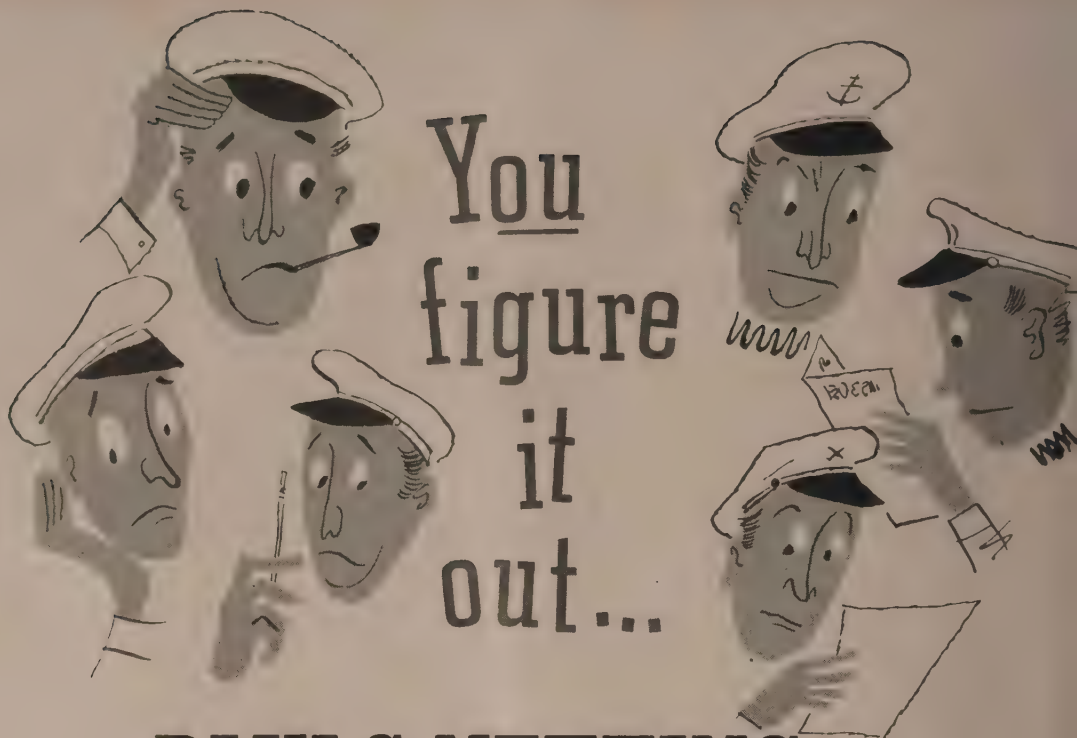
Western Fishermen, Inc.—John J. Green.

Whitney and Company—William F. Ehrman.

Whiz Fish Products Company—Stan Bear, T. A. Conrad, Kay Goodman, T. S. Goodman, Norman Lurie, R. O. Pierce, R. E. Silver.

Yukon River Fishermen Coop. Assn., Inc.—John T. Emel.

University of Washington School of Fisheries—Insuk Chung, Tony de Costa, Mizuho Ohno, John Peters, Gunnar Rollesfen, Raden Soerjodino-toto, Frank Spencer, Joe Stern, Arnold W. Tubman, Dick van Dyke, Ken Vaughn.



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Sold-Out, Salmon Trade Sees Only Scant Supplies in 1956

Salmon sellers today concentrate so much on this spring's sales on next fall's supplies; and some find that prospect so slender that they pay attention run far on ahead to 1957. Stocks of salmon in first hands are nothing less than "nominal". If you needed them all, you wouldn't have much.

Coho halves are about the only form of any consequence still available. This fact accounts for the failure of the Japanese exporters to find a market in the United States for the 10,000 cases of Coho halves which they have on hand. The selling price wasn't attractive, in view of the domestic stocks and pricing.

Fact remains that Coho halves are not widely sought. True, they are highly acceptable in a few specialized markets which have been developed for certain labels; but for this business the specifications are strict and the standards high.

Now for next year: Search as they will, salmon sellers haven't found a shred of credible evidence to indicate that the 1955 pack of canned salmon in Canada and the

United States will be anything more than light.

In short, 1956 is the off-year all the way around.

Another thing: the complacent customer who says: "So what? The Japanese will have plenty of fish to sell" had better take a long and thoughtful look at the first article in this issue of *PF*.

If he has half as much perception as he gives himself credit for he'll sense the implications in the Soviet declaration of an enormous ocean reservation in which it says you can fish salmon only if you have first secured a fishing license from the Communist fish warden. Moreover, the U.S.S.R. idea of a bag limit for all operations in these waters—Russian and Japanese together—appears to call for a 1956 catch less than half of that taken from those waters in 1955 by the Japanese alone.

Will the Communists make this stick?

Can't tell; but it all adds just one more reason for expecting that 1956 salmon supplies will be short; and that this applies to Asian as well as North American production.

Committees Named For California Fisheries Assn.

Sam DeLuca is chairman of the market conservation committee of the Southern California Fisheries Association. Serving with him are Carl Merry, Jr., Walter Paladini, Joe Sulentor and Frank Tsuchiya.

The newly appointed legislative committee consists of Chairman R. M. Reinke, and Glen Baker, Sam DeLuca, John DiMassa and Ray Lemoi.

The April seafood of the month was halibut with trout, rockfish fillets and shrimp as companion items. The Association's golf tournament has been announced for June 12 at the Lake-wood Country Club. New member of the Los Angeles association is Los Angeles-Seattle Motor Express.

32,000-Ton Albacore Export Quota Fixed

Albacore exports from Japan to the United States in the 12 months running through March, 1957, will be on the order of 32,000 tons—if the fish are available.

This was decided by the Japan Export Frozen Aquatic Products Manufacturers' Association, which established 20,000 tons as the target for the summer Albacore season, from April through October; and 12,000 tons for the winter season.

Export quota on frozen swordfish was set at 4,000 tons, halved between the six months through September and that ending the following March.

Hoyer Joins Berelson

The sea food department of Berelson, Inc., San Francisco, exporters, importers, and sea food factors, has been expanded with the addition to the staff of Bill Hoyer.

Mr. Hoyer, prior to his present connection, was for many years with Henry Dowden Co., San Francisco sea food brokers. In his new position, Mr. Hoyer joins Dick Bentley, and Bill Markey.

Berelson, Inc. has joined the Northern California Sea Food Institute, and the NFI, and Mr. Bentley represented the firm at the annual convention of the latter organization.

California Canned Tuna Pack — February, 1956

Meat	Solid Pack	Standard Pack	Chunks	Grated, Flakes	Dark & Light	Tonno	*Misc.	Total
1/2 lb.	48,410	4,650	26,681	11,083	1,343	...	...	91,767
4 lb.	3,924	227	...	...	...	...	...	4,151
1/2 lb.	...	...	...	...	...	...	867	867
TOTAL in 1/2 lbs..	...	...	...	...	...	...	...	95,110
Meat	...	...	...	...	...	...	...	...
1 lb. (12s)	...	...	1,652	...	...	...	...	1,652
1 lb.	...	49	2,023	185	...	...	...	2,257
1/2 lb.	103,559	...	386,928	56,013	3,700	1,784	...	551,984
4 lb.	17,852	949	45,453	...	...	13,657	...	77,911
1/2 lb.	...	...	...	...	...	...	7,612	...
TOTAL in 1/2 lbs..	...	...	...	...	...	...	...	613,197
Meat	...	...	...	...	...	...	...	...
TOTAL in 1/2 lbs..	...	...	...	115	...	...	...	115
TOTALS	173,745	5,875	462,737	67,396	15,441	15,441	8,479	707,442

*Tuna specialty packs converted to 1/2 lbs.

1/4 lb. 100s.

*Total case pack converted to 1/2 lbs.

Prices of Lightmeat Tuna Undergo \$2 "Corrections"

An unexpected drop in the case price of fancy solid and chunk took place early in April when the two largest canneries lowered the case price of light meat solid pack tuna and chunk by \$2.00 over the board.

The price cut was announced almost at the same time that the two canneries on Terminal Island, with

advertised brands, prepared a system of rotating the sailing of their tuna fleets. Star-Kist stated to PACIFIC FISHERMAN that it was developing a plan which is expected to result in freedom from temporary gluts and in a uniformity of continuous deliveries. Van Camp was reported to be working out some kind of a control of sailing of its fleet.

Tuna Imports, frozen and canned in So. California, March, 1956.			
Japan	Tons	So. America	
Yellowfin	1,241	Yellowfin	
Albacore	922	Skipjack	
Total		2,163	Total

Coast's Humboldt Oysters Sold by Fortune Firm

Oysters being produced in Humboldt Bay, Calif., by Coast Oyster Co. are now being distributed through out northern California by Fortune Fisheries, San Francisco sea brokers.

For a number of years Fortune Fisheries have been the sales agent for Sherwood Oyster Farms and Coast Oyster Co.

"Acceptance of these oysters in the trade has been most gratifying," said Bob Cole, partner in Fortune Fisheries. "Oysters that are shipped one day in Eureka are delivered the following morning and the quality is unsurpassed."

British Columbia Packers, Ltd., Van Camp Sea Food Co. recently took a large position in Coast Oyster Co. ownership.

Mink Beat Human Beings To Aureomycin Benefits

• First use of aureomycin for protecting the quality of fish for food in the United States will benefit American mink, rather than the people who wear them.

Seawater chilling combined with the use of aureomycin is being in-

stalled in the Astoria trawler *Marie H.*, owned by Paul Autio and skippered by Murl Peterson, in the production of otherwise unmarketable bottomfish for feeding mink on fur farms.

A tank for chilled seawater was installed in the vessel's hold this spring by the Columbia Boatbuilding Co., Astoria. It is planned to use aureomycin in the seawater in order to keep the fish in perfect condition—an important factor in mink feeding.

It is notable that the use of aureomycin at time of writing had not been approved by the Food and Drug Administration for use in protecting the quality of fish for human consumption. Its employment in preserving fish for mink food is permissible, however.

Use of aureomycin in the ice baths in which fresh chickens are immediately chilled is permitted by Food and Drug, and it is anticipated that extension of this clearance to fish for human consumption will follow shortly.

Until it does, however, only mink will get to enjoy fish whose freshness is protected by aureomycin as well as chilled seawater.

California Mackerel Catch

One pound talls of Jack mackerel led the mackerel-anchovy production in Southern California in February: 82,510 cases from 4,914 tons. Then came Pacific mackerel, 21,973 1 pound talls, and 548 tons.

Anchovies were canned in February in 1 pound ovals, 4,753, producing in addition 57,570 five ounce round 100s.

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FANCY RED SOCKEYE
SALMON

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inco at the Cutting—Six of the American Can Co's. representatives at the 18th Canned Salmon Cutting, Seattle, this spring. From the left: Kenneth Norris, veteran specialist in salmon account sales; R. C. Stolk, vice president, Pacific Division; Alexander Black, manager of sales, Pacific vision; William Flynn, Northwest District sales manager; Louis G. Germain, supervisor, Northwest District research and Technical department, d a speaker on salmon canning technology on the "cutting program"; C. F. Sargent, recently transferred from Los Angeles to Seattle as outside salesman to the salmon trade.

When Should You Fix the Roof?

Canned Salmon Week No. 2—feared throughout the country during early Lent this spring—produced a good build-up of promotion for a product which—this year—has no less problem.

The time may come, perhaps next year, when the salmon business will have a sales problem again; when it will be face-to-face with a big pack. It is high time for the industry to prepare for it.

These were the closing points made by Jay S. Gage of G. P. Halferty & Co. when he, as chairman of the 1956 Canned Salmon Week Promotion, re-

ported on it to the 18th Canned Salmon Cutting.

Although the funds available in 1956 were less than those of the year before—when \$10,000 bought at least \$82,000 worth of chargeable space and

far more than that in cost-free promotion—he felt certain that canvass of the 1956 results would show an even greater response, due to the cumulative effect of the continuing program.

● Mr. Gage's talk re-stated in new words the old adage that *the time to fix the roof is when the sun is shining.*

PACIFIC PEARL



**CRAB - SALMON - TUNA
CLAMS - OYSTERS**

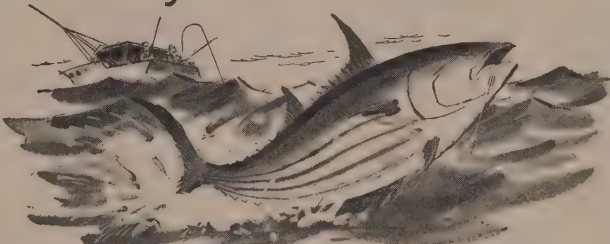
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These processors know that Archer "S" *keeps* the delicate tuna flavor. Helps build customer demand for their products—fast! That's because Archer "S" is refined and deodorized by a continuous ribbon process . . . cannot vary in quality. Every time you order Archer "S" Soybean Salad Oil, you get the *same* clarity of color . . . the *same* purity and blandness.

Archer "S" Soybean Salad Oil

Archer-Daniels-Midland co.

700 Investors Building, Minneapolis 2, Minn.

Species of Crab Packed by Japanese

Scientific Name	Japanese Popular Name	English Trade Name	Can Code	Current Export Price
Paralithodes camchatica	Taraba-gani	King Crab	J C N	\$24.15
Paralithodes platypus	Abura-gani	King Crab	J C N	24.15
Paralithodes brevipes	Hanasaki-gani	Hanasaki Crab	H C N	16.15
Chionoectes opilio	Zuwai-gani	Snow Crab Zuwai Crab	S C N	13.65
Erimacrus isenbeckii	Ke-gani	Korean Crab Kegani Crab Hairy Crab	K C N	12.65

● Table above has been prepared by Pacific Fisherman's Tokyo representative in response to a number of requests from American operators and distributors for a key to the several species and a projection of their names, scientifically in Japan, and in the American trade.

Prices quoted were the check prices for cases of four dozen half-pound cans, best grade, labeled, fob. Yokohama.

hama.

Hanasaki crab is permitted by the Japanese government to be labeled "King Crab," providing it carries the sub-title "Hanasaki." It is a smaller crab than the two species which make-up the major part of the King crab pack, while the legs are short and the meat somewhat pink, with a flavor distinction which some examiners liken to lobster.

Some years ago Ke-gani was sometimes labeled "Snow Crab" or "Eliza Crab," but currently the term "Snow Crab" is used only for Zuwai-gani.

Actually, the Japanese word for crab is "kani," but this changes to "gani" in pronunciation when used as a suffix.

There is little distinction between the two species of crab which may be labeled "King." Taraba-gani is characterized by the whiteness of the meat. The related Abura-gani is practically the same in all respects save that the canned meat is of a somewhat yellowish color. Critical examiners are said to consider its flavor superior to that of its whiter cousin.

Zuwai-gani or "Snow Crab" is quite small, with soft meat of a slightly gray color tone.

Ke-gani, the Korean or "Hairy Crab," is rated as the least desirable of the crabs canned commercially by the Japanese. The crabs are small and the meat of a somewhat fibrous character.

Honors Bestowed On Brayton Wilbur

Honors were showered on Brayton Wilbur, head of Wilbur Ellis Co., San Francisco, factors in the world food industry, last month.

He was elected to the board of directors of the Bank of California, San Francisco's oldest banking institution, and also to the board of directors of Safeway Stores, Inc., nationwide retail food chain with headquarters offices in Oakland, Calif.

Ambassador P. Sarasin at the Washington, D.C. Royal Thai Embassy announced that through the recommendation of His Excellency the Prime Minister, Field Marshall Phibunsonggram, His Majesty the King of Thailand had designated Mr. Wilbur as "Companion of the Most Excellent Order of the White Elephant" in recognition of his valuable contributions towards the success of the Thai Government Will Mission to the United States, headed by His Excellency the Prime Minister last year.

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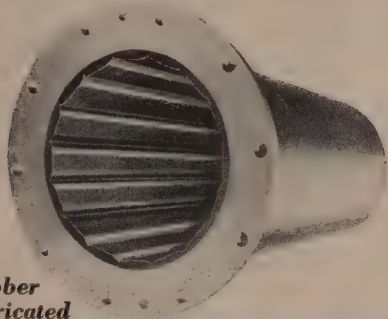
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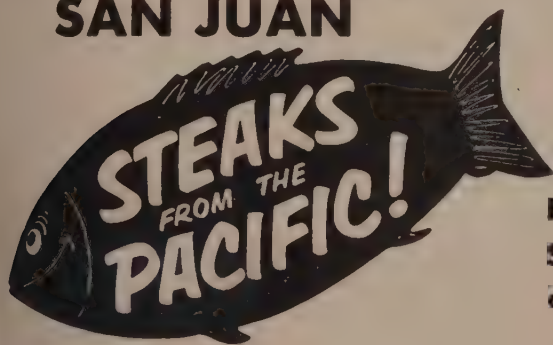
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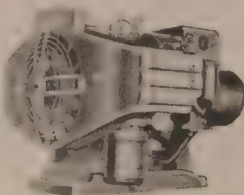
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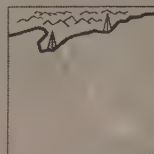
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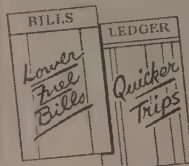


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Dr. Frances Clark Retires as Laboratory Director

Dr. Frances N. Clark retired April 1, 1956, as director of the California State Fisheries Laboratory, Terminal Island. After 32 years of service to California as an aquatic biologist, a branch of science which few women follow.

Dr. Clark began her work in biology counting fish scales at Stanford University, from which she later received her doctorate. She joined the scientific staff of the California Department of Fish and Game in 1921, and in 1941 was appointed director of its Terminal Island laboratory, where she spent most of her work.

She was honored by the staff of the Terminal Island office of the Department late in March, before leaving for several months' tour of the United States.

As director of the laboratory, Dr. Clark is being succeeded by John E. Planch, senior marine biologist, who has served the department as a scientist since 1941.

Salmon "Tattoo" Tests Effects of Power Dams

Thousands of Columbia River chinook salmon fingerlings, tattooed with different and distinctive color markings, were released this month at Mcary Dam on the Columbia River in tests on the effect of power dams on the survival rates of the young salmon migrating to the ocean from the Snake and Upper Columbia watersheds.

The experiments were conducted by the State Department of Fisheries under a contract with the U. S. Army Corps of Engineers, with biologist Dale Schoeneman in charge.

A group of pontoon fishing platforms, constructed in the Department's fish screen shop at Yakima, were placed downriver at Boardman (about 10 miles) and just below the power



Dr. Frances N. Clark retires as director of the California State Fisheries Laboratory.

dam being constructed at The Dalles (about 100 miles downstream). First recoveries were made at the upper site only a few hours after release.

As the marked salmon are recaptured by the pontoon nets, the Department's research workers will add to their knowledge of how best to get migrant salmon past power dams.

Fishermen's Packing Corp. Builds Office Structure

Offices of the Fishermen's Packing Corporation at Anacortes, Wash., will be located in a new \$50,000 building before the first Sockeye of the 1956 season comes into the cannery. The thoroughly modern two-story structure is being erected on the site of the former office building, immediately adjacent to the cannery, and John P. Planch, general manager, expects it to be ready for occupancy about the end of May.

Present officers and directors of

the corporation are: Jack Repanich, Seattle, president; Peter Milos, Tacoma, first vice president; Andrew Vitalich, Seattle, second vice president; John N. Planch, Anacortes, secretary and general manager; Frank Barcott Jr., Everett, treasurer; George Cucuihoch, Tacoma, assistant secretary; Paul Martinis, Everett; Matt Vodanovich, Tacoma; Paul Serka, Tacoma; Nick Vitaljic, Bellingham; Steve Zitkovich, Seattle, directors; Anthony Mustacich, office manager; M. Halvorsen, cannery superintendent.



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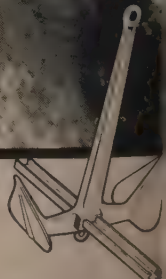
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Ralph Syverson Signs-on The Divoteers' Crew

Ralph Syverson, of the San Juan Whaling & Packing Co., Seattle, new president of The Fish Divoteers, that organization of active golfers in the affiliated industries in the Pacific Northwest, has appointed the following committees for 1956:

Sponsors Committee—Walter Johnson, Halibut Producers Cooperative, chairman; Bill Gilbert, New England Fish Co.; Bill Hanson, San Juan Fish & Packing Co.; Robert Graham, E. Harris Company; Dick Frank, Erie Railroad Co.; Bob Ennis, North Pacific Seafoods.

Entertainment—Walter P. Shiel, Walter P. Shiel & Co., chairman; Douglas, Skinner & Eddy Corp., Pat Kelly, Brighton Fish Co.

Tournament—Steve Kipper, Cann Shippers Assn., chairman; Wally Zin, Chicago, Burlington & Quincy Railroad Co.; Larry Carlander, Puget Sound Freight Lines; Dave Craig, Eastman-Stuart Fish Co.; Paul Staley, Seattle Seafoods, Inc.; Gale Blasingme, Washington Fish & Oyster Co. **Handicap**—Kenneth L. Williams, John & Co., chairman; Jim Braymer, P. Halferty & Co.; Stan Bear, Whiz Products Co.

Membership—Jack C. Pierce, Whiz Products Co., chairman; John Luc, Kahler-Dahl Fish Co.; John McCallum, McCallum-Legaz Fish Co. **Publicity**—C. L. Hillyard, Pacific Fisherman, chairman; Don Venables, Marine Digest.

Other 1956 officers are Randall J. J. J., New England Fish Co., vice president; Bill Frankland, Kelley-Carke Co., secretary; and Phil J. J., Fibreboard Products, Inc., treasurer.

California Whaling Resumes Out of S.F.

California will again have a whaling operation, starting in May, according to Otto Weissich, vice-president and assistant secretary, Del Monte Fishing Co., San Francisco.

Whales will be caught off the Farallones, towed in the Golden Gate to San Pablo, to the former East Fishery sardine plant. There the whale meat will be ground and sacked in three-ply waterproof paper sacks, 5-lbs. capacity. The sacked whale meat will then be frozen, and sold to cat, dog, and mink food.

The remaining meat, bones, and blubber will be rendered by the Independent Renderers, Inc., Renato E. J. J., sole owner and manager. This firm has a plant adjacent to that being occupied by Del Monte Fishing Co.,

and is said to be one of the most modern rendering plants in the United States.

The whale oil will be sold in the United States and Great Britain.

From \$60,000 to \$70,000 will be spent converting the sardine plant into a whaling operation, according to Mr. Weissich. These improvements will consist of a 60' slipway for handling the whales as they arrive at the plant. This will have a 113-ton winch, powered with an electric motor, and on the flensing deck there will be other winches to turn the whale and pull blubber.

Two refrigeration systems, using York ice machines will be installed, one to precool water and the other to hold the sacked whale meat awaiting transportation by truck to the National Ice & Cold Storage Co., Oakland, where the sacks will be frozen.

Two killer ships have been chartered for five years from Hunter & Foland, Eureka. They are the well known *Dennis Gayle* and *Donna Mae*, which formerly hunted whales for the Eureka plant, which suspended operations more than 10 years ago.

Some 15 people will be employed at the whaling station, according to Mr. Weissich. From May 1 to October 1 baleen whales will be caught, and from April 1 to December 1

sperm whales will be received. It is anticipated that about 200 whales will be processed in a six months period. However, Mr. Weissich said the capacity of the plant can be tripled.

Other officers of the Del Monte Fishing Co. are A. Caito, president; W. O. Weissich Jr., vice-president; Antone E. Trapani, secretary-treasurer. Superintendent of the plant at Pt. San Pablo is John Caito, nephew of A. Caito.

Mr. Caito is president of the Western California Fish Co., San Francisco, and newly elected president of the Northern California Sea Food Institute. Mr. Trapani is also an officer in Western California Fish Co.

Professor's Name Corrected

In its short report of Japanese experiments in the use of aureomycin for protecting the quality of tuna aboard the fishing vessel, published on page 52 of its April issue, *Pacific Fisherman* incorrectly spelled the name of the scientist directing the work.

This research is under the supervision of Professor Tomiyama of Kyushu University, who is at present in Seattle as Fulbright Lecturer at the School of Fisheries, University of Washington.



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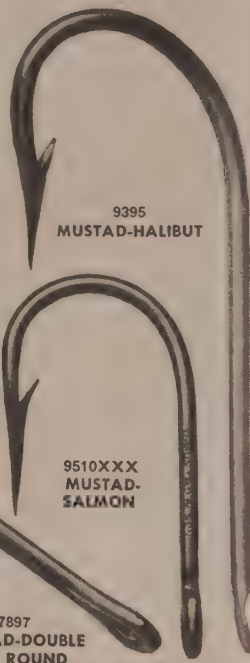
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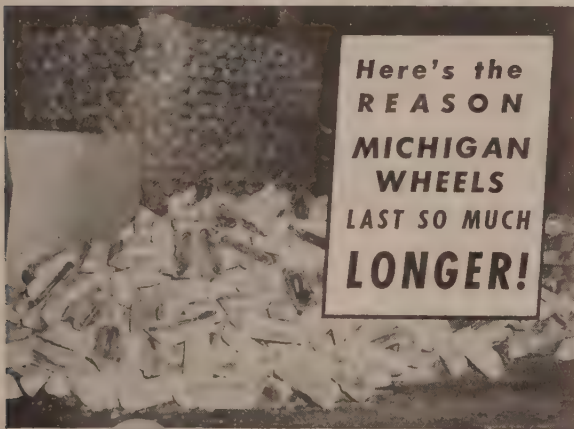


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Nelson Bros., Vancouver, B.C. fish canner have installed an Albertoli can unscrambler. This is the second Albertoli can unscrambler that the company has purchased, according to Gilbert Albertoli, John Albertoli, Fishermen's Wharf, San Francisco, manufacturer of fish canning equipment.

Canadian Fishing Co., Vancouver, B.C., has recently installed a 1/2-lb. Albertoli can unscrambler.

W. Lockwood Travels Abroad

E. W. Lockwood, secretary, Wilbur Ellis Co., San Francisco, left last month on a two month's trip that will take him to Chicago, New York, and thence to Europe.

His trip is being made in the interests of Wilbur-Ellis Co's import business and will include most of the countries of Western Europe and Norway.

Bell Makes Ready for Rad Roe Canning

Bell Smoked Fish Co., San Francisco, California's leading packer of rad roe, will be packing again this season, according to Joseph C. Tarantino, managing partner in the company.

Shad roe will be packed in 1/2-lb. al cans, two skeins to the can, and her 12 or 24 cans to the case.

The roe will be packed under either the Tara Bell label, or buyer's labels, according to Mr. Tarantino.

Excellent Late Smelt Run

Smelt fishing on the Columbia river was good, steady and productive during the early part of the year, and this main stem fishing was followed in March by really heavy production as the little fish moved into the Cowlitz.

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Japanese Fisheries equipment and methods of newest type featured an exhibition sponsored by March by Suisan Keizai, the Japan "Fisheries Economist" industrial newspaper published by Genzaburo Yasunari. This picture was taken in the exhibition room and shows, from left to right, booths representing Toyo Rayon K.K., featuring its nylon; Kurashiki Rayon K.K., with its "kuron" featured; and Asahi Kasei K.K., whose specialty is saran, the Dow Chemical Co. product manufactured in Japan.

Modern Maid Specialist Dies

Ted Rowan, field representative of Modern Maid Food Products, Jamaica, New York, for many years, died suddenly at Detroit March 18.

Mr. Rowan was active in the prepared mix industry for the past ten years and was well known in the industry. He was associated with the Modern Maid Company for the last three years.

Soybean Oil Firm In New Location

Cecil Bays & Co., vegetable oil brokers, have moved to a new location in Arcadia, suburb of Los Angeles. The address is now 1135 W. Huntington Drive. Joining the staff

recently as an associate of Mr. Bays is Arthur Pion, who for 28 years worked with Swift & Co. In the tuna canning industry, soybean oil for tuna packing is the specialty of the Cecil Bays enterprise.

Jack Meletio Elected Veep Of Missouri Athletic Club

Jack Meletio, president of Meletio Company, St. Louis, was elected vice-president of the Missouri Athletic Club recently. Mr. Meletio became the youngest man to ever achieve this post.

Mr. Meletio's company, producer of Golden Dipt Ready-Mixed Breading, Golden Dipt Fritter Mix, is one of the largest suppliers of ready-mixed breading in the world.

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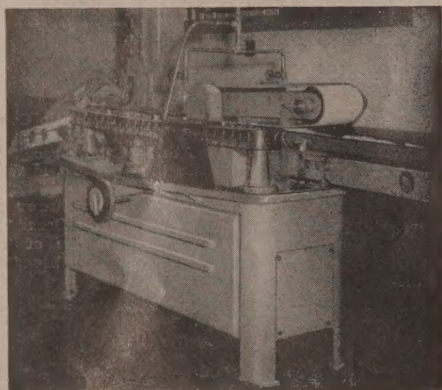
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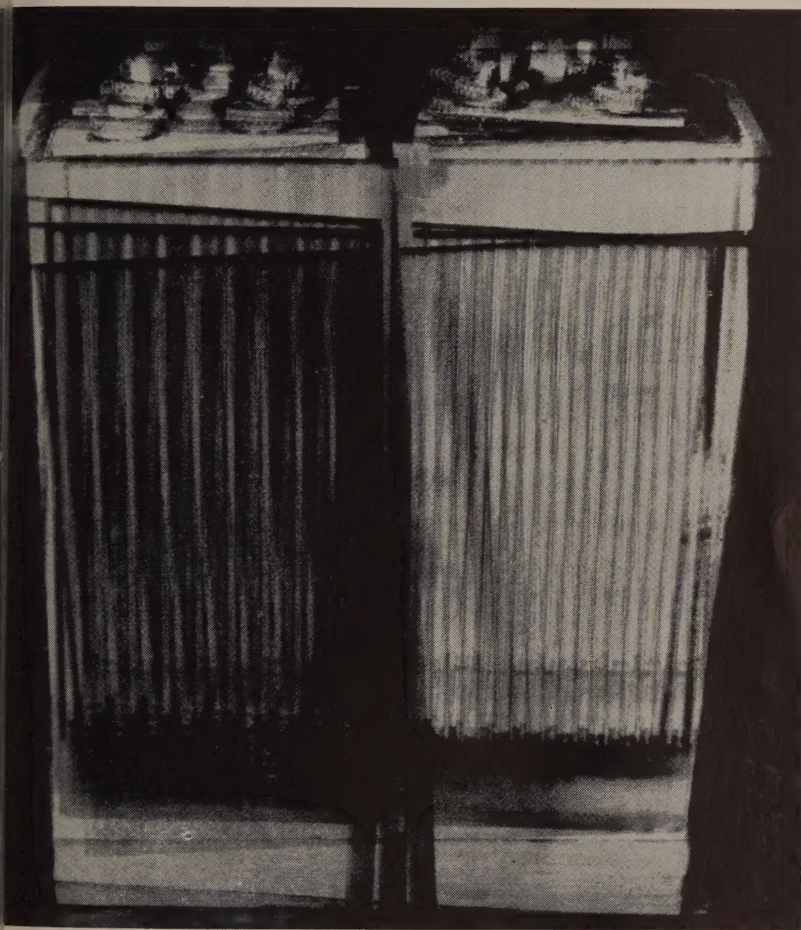
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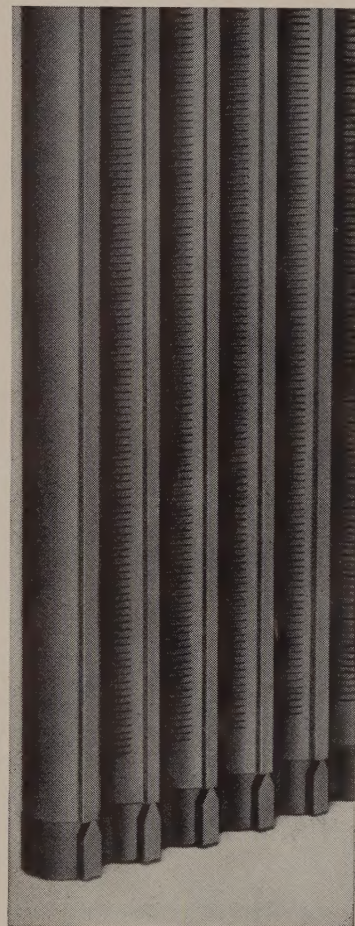
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